10/667,442

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=> d his

     (FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

     FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
     LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004
L1       1212511 S KINASE?
L2        442433 S HUMAN AND L1
L3        406466 S SERINE OR THREONINE
L4         39005 S L2 AND L3
L5       6588705 S CLON? OR EXPRESS? OR RECOMBINANT
L6         22817 S L4 AND L5
L7       4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN
L8             0 S KIDNEY OT UTERUS
L9       1844028 S KIDNEY OR UTERUS
L10         4280 S L6 AND L7
L11         1410 S L6 AND L9
L12         5270 S L10 OR L11
L13         4661 SS L1 (2W)L3
L14         4661 S L1 (2W)L3
L15          195 S L12 AND L14
L16          126 DUP REM L15 (69 DUPLICATES REMOVED)
                 E YE J/AU
L17         1758 S E3
                 E YAN C/AU
L18         1019 S E3
                 E DIFRANCESCO V/AU
L19          112 S E3-E4
                 E BEASLEY E M/AU
L20          297 S E3
L21         3154 S L16 OR L17 OR L18 OR L19 OR L20
L22          126 S L15 AND L21
L23          126 DUP REM L22 (0 DUPLICATES REMOVED)
L24         1665 S "STK"
L25            0 S L23 AND L24
L26        41147 S L1(A)L3
L27           25 S HUMAN (A)L26
L28            1 S L22 AND L27

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PASSWORD:
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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  May 10   PROUSDDR now available on STN
 NEWS  4  May 19   PROUSDDR: One FREE connect hour, per account, in both May
                   and June 2004
 NEWS  5  May 12   EXTEND option available in structure searching
 NEWS  6  May 12   Polymer links for the POLYLINK command completed in REGISTRY
 NEWS  7  May 17   FRFULL now available on STN
 NEWS  8  May 27   New UPM (Update Code Maximum) field for more efficient patent
                   SDIs in CAplus
 NEWS  9  May 27   CAplus super roles and document types searchable in REGISTRY
 NEWS 10  May 27   Explore APOLLIT with free connect time in June 2004
 NEWS 11  Jun 22   STN Patent Forums to be held July 19-22, 2004
 NEWS 12  Jun 28   Additional enzyme-catalyzed reactions added to CASREACT
 NEWS 13  Jun 28   ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
                   and WATER from CSA now available on STN(R)

 NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004

=> file medline embase biosis biotechds scisearch hcaplus ntis lifesci
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

FILE 'MEDLINE' ENTERED AT 12:07:10 ON 01 JUL 2004

FILE 'EMBASE' ENTERED AT 12:07:10 ON 01 JUL 2004
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FILE 'BIOSIS' ENTERED AT 12:07:10 ON 01 JUL 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'BIOTECHDS' ENTERED AT 12:07:10 ON 01 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'SCISEARCH' ENTERED AT 12:07:10 ON 01 JUL 2004
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FILE 'HCAPLUS' ENTERED AT 12:07:10 ON 01 JUL 2004
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FILE 'NTIS' ENTERED AT 12:07:10 ON 01 JUL 2004
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It contains copyrighted material.
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FILE 'LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)


=> s kinase?
L1     1212511 KINASE?

=> s human and l1
L2      442433 HUMAN AND L1

=> s serine or threonine
L3      406466 SERINE OR THREONINE

=> s l2 and l3
L4       39005 L2 AND L3

=> s clon? or express? or recombinant
   5 FILES SEARCHED...
L5     6588705 CLON? OR EXPRESS? OR RECOMBINANT

=> s l4 and l5
L6       22817 L4 AND L5

=> s hippocampus or breast or carcinoma or brain
L7     4757769 HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN

=> s kidney ot uterus
L8           0 KIDNEY OT UTERUS

=> s kidney or uterus
L9     1844028 KIDNEY OR UTERUS

=> s l6 and l7
L10      4280 L6 AND L7

=> s l6 and l9
L11      1410 L6 AND L9

=> s l10 or l11
L12      5270 L10 OR L11

=> ss l1 (2w)l3
L13      4661 L1 (2W) L3
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=> s l1 (2w)l3
L14        4661 L1 (2W) L3

=> s l12 and l14
L15         195 L12 AND L14

=> dup rem l15
PROCESSING COMPLETED FOR L15
L16         126 DUP REM L15 (69 DUPLICATES REMOVED)

=> d 1-126 ibib

L16   ANSWER 1 OF 126  BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 2004-08972  BIOTECHDS
TITLE:            Down regulating a pre-selected endogenous gene, useful in
                  treating cancer or a pre-cancerous growth, infectious
                  diseases and/or inflammatory diseases, by administering a
                  composition comprising a double-stranded RNA molecule;
                     gene down-regulation and RNA interference for use in
                     disease therapy and gene therapy
AUTHOR:           SCARIA P V; WOODLE M C; LU P Y; TANG Q; XU J; XIE F Y
PATENT ASSIGNEE:  INTRADIGM CORP
PATENT INFO:      WO 2004013310 12 Feb 2004
APPLICATION INFO: WO 2003-US24587 6 Aug 2003
PRIORITY INFO:    US 2002-401029 6 Aug 2002; US 2002-401029 6 Aug 2002
DOCUMENT TYPE:    Patent
LANGUAGE:         English
OTHER SOURCE:     WPI: 2004-157124 [15]

L16  ANSWER 2 OF 126  HCAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:        2004:120760  HCAPLUS
DOCUMENT NUMBER:         140:193038
TITLE:                   Use of mouse genes involved in tumor development for
                         the development of anti-cancer drugs
INVENTOR(S):             Van Lohuizen, Maarten Matthijs Sharif; Berns, Antonius
                         Jozef Maria; Martins, Carla Pedro; Mikkers, Henricus
                         Martinus Maria; Lenz, Jack Richard; Lund, Anders
                         Henrik; De Koning, John Paul
PATENT ASSIGNEE(S):      Kylix B.V., Neth.
SOURCE:                  PCT Int. Appl., 280 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  2
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
     WO 2004012817      A2   20040212       WO 2003-EP8470   20030731
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
     EP 1386639         A1   20040204       EP 2002-78143    20020731
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
     US 2004033974      A1   20040219       US 2002-224524   20020819
```

PRIORITY APPLN. INFO.: EP 2002-78143 A 20020731
US 2002-224524 A 20020819

L16 ANSWER 3 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:334306 HCAPLUS
DOCUMENT NUMBER: 140:404560
TITLE: ILKAP regulates ILK signaling and inhibits anchorage-independent growth
AUTHOR(S): Kumar, Ashu S.; Naruszewicz, Izabela; Wang, Ping; Leung-Hagesteijn, Chungyee; Hannigan, Gregory E.
CORPORATE SOURCE: Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Can.
SOURCE: Oncogene (2004), 23(19), 3454-3461
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 126 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2004123575 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14981538
TITLE: Apoptosis signaling by the novel compound 3-Cl-AHPC involves increased EGFR proteolysis and accompanying decreased phosphatidylinositol 3-**kinase** and AKT **kinase** activities.
AUTHOR: Farhana Lulu; Dawson Marcia I; Huang Ying; Zhang Yuxiang; Rishi Arun K; Reddy Kaladhar B; Freeman Robert S; Fontana Joseph A
CORPORATE SOURCE: John D Dingell VA Medical Center, Karmanos Cancer Institute, Department of Internal Medicine, Wayne State University, Detroit, MI 48201, USA.
CONTRACT NUMBER: PO CA51993 (NCI)
SOURCE: Oncogene, (2004 Mar 11) 23 (10) 1874-84.
Journal code: 8711562. ISSN: 0950-9232.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200405
ENTRY DATE: Entered STN: 20040312
Last Updated on STN: 20040514
Entered Medline: 20040513

L16 ANSWER 5 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:145007 HCAPLUS
DOCUMENT NUMBER: 140:404419
TITLE: Phospho-**Serine**-118 Estrogen Receptor-α Detection in **Human Breast** Tumors in Vivo
AUTHOR(S): Murphy, Leigh; Cherlet, Tracy; Adeyinka, Adewale; Niu, Yulian; Snell, Linda; Watson, Peter
CORPORATE SOURCE: Department of Biochemistry and Medical Genetics, Manitoba Institute of Cell Biology, Winnipeg, MB, Can.
SOURCE: Clinical Cancer Research (2004), 10(4), 1354-1359
CODEN: CCREF4; ISSN: 1078-0432
PUBLISHER: American Association for Cancer Research
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 6 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN
ACCESSION NUMBER: 2004221561 EMBASE
TITLE: Collagen I upregulates extracellular matrix gene **expression** and secretion of TGF-β1 by cultured **human** mesangial cells.
AUTHOR: Ortega-Velazquez R.; Gonzalez-Rubio M.; Ruiz-Torres M.P.; Diez-Marques M.L.; Iglesias M.C.; Rodriguez-Puyol M.; Rodriguez-Puyol D.
CORPORATE SOURCE: M.P. Ruiz-Torres, Departamento de Fisiologia, Facultad de Medicina, Universidad de Alcala, Carretera de Barcelona, Km. 33,600, Alcala de Henares, 28880 Madrid, Spain. mpiedad.ruiz@uah.es
SOURCE: American Journal of Physiology - Cell Physiology, (2004) 286/6 55-6 (C1335-C1343).
Refs: 40
ISSN: 0363-6143 CODEN: AJPCDD
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 005 General Pathology and Pathological Anatomy
006 Internal Medicine
028 Urology and Nephrology
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 7 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2004:118174 SCISEARCH
THE GENUINE ARTICLE: 766WX
TITLE: Transcriptional activation of p21(waf1)/(cip1) by alkylphospholipids: Role of the mitogen-activated protein **kinase** pathway in the transactivation of the **human** p21(waf1/cip1) promoter by Sp1
AUTHOR: De Siervi A; Marinissen M; Diggs J; Wang X F; Pages G; Senderowicz A (Reprint)
CORPORATE SOURCE: NICDR, Oral & Pharyngeal Canc Branch, Mol Therapeut Unit, NIH, 30 Convent Dr, Bldg 30, Room 212, Bethesda, MD 20892 USA (Reprint); NICDR, Oral & Pharyngeal Canc Branch, Mol Therapeut Unit, NIH, Bethesda, MD 20892 USA; Duke Univ, Med Ctr, Dept Pharmacol, Durham, NC USA; Ctr Antoine Lacassagne, Inst Signalling Dev Biol & Canc Res, F-06054 Nice, France
COUNTRY OF AUTHOR: USA; France
SOURCE: CANCER RESEARCH, (15 JAN 2004) Vol. 64, No. 2, pp. 743-750
.
Publisher: AMER ASSOC CANCER RESEARCH, 615 CHESTNUT ST, 17TH FLOOR, PHILADELPHIA, PA 19106-4404 USA.
ISSN: 0008-5472.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 69
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 8 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
ACCESSION NUMBER: 2004051002 EMBASE
TITLE: Aberrant methylation of DAP-**kinase** in therapy-related acute myeloid leukemia and myelodysplastic syndromes.
AUTHOR: Voso M.T.; Scardocci A.; Guidi F.; Zini G.; Di Mario A.; Pagano L.; Hohaus S.; Leone G.
CORPORATE SOURCE: M.T. Voso, Istituto di Ematologia, Universita Cattolica S. Cuore, L.go A. Gemelli, 1, 00168 Rome, Italy. mtvoso@rm.unicatt.it
SOURCE: Blood, (15 Jan 2004) 103/2 (698-700).
Refs: 24

ISSN: 0006-4971 CODEN: BLOOAW
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 016 Cancer
025 Hematology
037 Drug Literature Index
038 Adverse Reactions Titles
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 9 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2004:173292 BIOSIS
DOCUMENT NUMBER: PREV200400174837
TITLE: Homeodomain-interacting protein **kinase**-2 activity and p53 phosphorylation are critical events for cisplatin-mediated apoptosis.
AUTHOR(S): Di Stefano, Valeria; Rinaldo, Cinzia; Sacchi, Ada; Soddu, Silvia; D'Orazi, Gabriella [Reprint Author]
CORPORATE SOURCE: Molecular Oncogenesis Laboratory, Regina Elena Cancer Institute, Via delle Messi d'Oro 156, 00158, Rome, Italy
dorazi@ifo.it
SOURCE: Experimental Cell Research, (February 15 2004) Vol. 293, No. 2, pp. 311-320. print.
ISSN: 0014-4827 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 31 Mar 2004
Last Updated on STN: 31 Mar 2004

L16 ANSWER 10 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 2003-16046 BIOTECHDS
TITLE: New nucleic acid constructs comprising a region encoding a chimeric polypeptide fused to an apoptosis signaling molecule, and a region encoding an element directing polypeptide **expression**, useful for down-regulating angiogenesis;
adeno virus vector-mediated Fas-C chimeric protein gene transfer and **expression** in endothelial cell for use in cancer gene therapy
AUTHOR: HARATS D; GREENBERGER S
PATENT ASSIGNEE: VASCULAR BIOGENICS LTD
PATENT INFO: WO 2003033514 24 Apr 2003
APPLICATION INFO: WO 2002-IL339 1 May 2002
PRIORITY INFO: US 2001-330118 19 Oct 2001; US 2001-330118 19 Oct 2001
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2003-393499 [37]

L16 ANSWER 11 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2004:99397 BIOSIS
DOCUMENT NUMBER: PREV200400100947
TITLE: G protein-coupled receptor **kinase** interaction with Hsp90 mediates **kinase** maturation.
AUTHOR(S): Luo, Jiansong; Benovic, Jeffrey L. [Reprint Author]
CORPORATE SOURCE: Department of Microbiology and Immunology, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, 19107, USA
jeff.benovic@mail.tju.edu
SOURCE: Journal of Biological Chemistry, (December 19 2003) Vol. 278, No. 51, pp. 50908-50914. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 18 Feb 2004

Last Updated on STN: 18 Feb 2004

L16 ANSWER 12 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2004:65664 BIOSIS
DOCUMENT NUMBER: PREV200400067420
TITLE: **Serine/threonine kinase** Mirk/Dyrk1B is an inhibitor of epithelial cell migration and is negatively regulated by the Met adaptor Ran-binding protein M.
AUTHOR(S): Zou, Yonglong; Lim, Seunghwan; Lee, Kangmoon; Deng, Xiaobing; Friedman, Eileen [Reprint Author]
CORPORATE SOURCE: Pathology Dept., Upstate Medical University, 750 East Adams St., 2303 Weiskotten Hall, Syracuse, NY, 13210, USA friedmae@mail.upstate.edu
SOURCE: Journal of Biological Chemistry, (December 5 2003) Vol. 278, No. 49, pp. 49573-49581. print. CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Jan 2004
Last Updated on STN: 28 Jan 2004

L16 ANSWER 13 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2004:42592 BIOSIS
DOCUMENT NUMBER: PREV200400043744
TITLE: Structural insights and biological effects of glycogen synthase **kinase** 3-specific inhibitor AR-A014418.
AUTHOR(S): Bhat, Ratan [Reprint Author]; Xue, Yafeng; Berg, Stefan; Hellberg, Sven; Ormo, Mats; Nilsson, Yvonne; Radesater, Ann-Cathrin; Jerning, Eva; Markgren, Per-Olof; Borgegard, Thomas; Nylof, Martin; Gimenez-Cassina, Alfredo; Hernandez, Felix; Lucas, Jose J.; Diaz-Nido, Javier; Avila, Jesus
CORPORATE SOURCE: Research DMPK, AstraZeneca R and D Sodertalje, Bldg. 231:213B, 15185, Sodertalje, Sweden ratan.bhat@astrazeneca.com
SOURCE: Journal of Biological Chemistry, (November 14 2003) Vol. 278, No. 46, pp. 45937-45945. print. CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 14 Jan 2004
Last Updated on STN: 14 Jan 2004

L16 ANSWER 14 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:418400 BIOSIS
DOCUMENT NUMBER: PREV200300418400
TITLE: Inactivation of integrin-linked **kinase** induces aberrant tau phosphorylation via sustained activation of glycogen synthase **kinase** 3beta in N1E-115 neuroblastoma cells.
AUTHOR(S): Ishii, Toshiaki [Reprint Author]; Furuoka, Hidefumi; Muroi, Yoshikage; Nishimura, Masakazu
CORPORATE SOURCE: Department of Pathobiological Science, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Hokkaido, 080-8555, Japan ishii@obihiro.ac.jp
SOURCE: Journal of Biological Chemistry, (July 18 2003) Vol. 278, No. 29, pp. 26970-26975. print. CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Sep 2003
Last Updated on STN: 10 Sep 2003

L16 ANSWER 15 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:375108 BIOSIS
DOCUMENT NUMBER: PREV200300375108
TITLE: CK2 phosphorylation of the armadillo repeat region of beta-catenin potentiates Wnt signaling.
AUTHOR(S): Song, Diane H.; Dominguez, Isabel; Mizuno, Junko; Kaut, Maurya; Mohr, Scott C.; Seldin, David C. [Reprint Author]
CORPORATE SOURCE: Boston Medical Center, 650 Albany St., Boston, MA, 02118, USA
dseldin@medicine.bu.edu
SOURCE: Journal of Biological Chemistry, (June 27 2003) Vol. 278, No. 26, pp. 24018-24025. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 13 Aug 2003
Last Updated on STN: 13 Aug 2003

L16 ANSWER 16 OF 126 MEDLINE on STN DUPLICATE 2
ACCESSION NUMBER: 2003219176 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12624098
TITLE: The inhibitory gamma subunit of the type 6 retinal cGMP phosphodiesterase functions to link c-Src and G-protein-coupled receptor **kinase** 2 in a signaling unit that regulates p42/p44 mitogen-activated protein **kinase** by epidermal growth factor.
AUTHOR: Wan Kah Fei; Sambi Balwinder S; Tate Rothwelle; Waters Catherine; Pyne Nigel J
CORPORATE SOURCE: Department of Physiology and Pharmacology, Strathclyde Institute for Biomedical Sciences, University of Strathclyde, 27 Taylor Street, Glasgow G4 ONR, Scotland, United Kingdom.
SOURCE: Journal of biological chemistry, (2003 May 16) 278 (20) 18658-63.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200306
ENTRY DATE: Entered STN: 20030513
Last Updated on STN: 20030626
Entered Medline: 20030625

L16 ANSWER 17 OF 126 MEDLINE on STN DUPLICATE 3
ACCESSION NUMBER: 2003197406 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12571245
TITLE: Actin binding of **human** LIM and SH3 protein is regulated by cGMP- and cAMP-dependent protein **kinase** phosphorylation on **serine** 146.
AUTHOR: Butt Elke; Gambaryan Stepan; Gottfert Nina; Galler Annette; Marcus Katrin; Meyer Helmut E
CORPORATE SOURCE: Institute of Clinical Biochemistry and Pathobiochemistry, University of Wurzburg, Josef-Schneider-Strasse 2, D-97080 Wurzburg, Germany.. butt@klin-biochem.uni-wuerzburg.de
SOURCE: Journal of biological chemistry, (2003 May 2) 278 (18) 15601-7.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200306
ENTRY DATE: Entered STN: 20030429

Last Updated on STN: 20030618
Entered Medline: 20030617

L16 ANSWER 18 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:613461 HCAPLUS
DOCUMENT NUMBER: 139:259344
TITLE: DNA synthesis and neuronal apoptosis caused by familial Alzheimer disease mutants of the amyloid precursor protein are mediated by the p21 activated **kinase** PAK3
AUTHOR(S): McPhie, Donna L.; Coopersmith, Robert; Hines-Peralta, Andrew; Chen, Yuzhi; Ivins, Kathryn J.; Manly, Susan P.; Kozlowski, Michael R.; Neve, Kim A.; Neve, Rachael L.
CORPORATE SOURCE: Department of Psychiatry, Harvard Medical School and McLean Hospital, Belmont, MA, 02478, USA
SOURCE: Journal of Neuroscience (2003), 23(17), 6914-6927
CODEN: JNRSDS; ISSN: 0270-6474
PUBLISHER: Society for Neuroscience
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 19 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:731257 HCAPLUS
DOCUMENT NUMBER: 140:55530
TITLE: Comparative studies of a new subfamily of **human** Ste20-like **kinases**: homodimerization, subcellular localization, and selective activation of MKK3 and p38
AUTHOR(S): Yustein, Jason T.; Xia, Liang; Kahlenburg, J. Michelle; Robinson, Dan; Templeton, Dennis; Kung, Hsing-Jien
CORPORATE SOURCE: Department of Molecular Biology and Microbiology, Case Western Reserve University, Cleveland, OH, 44106-4960, USA
SOURCE: Oncogene (2003), 22(40), 6129-6141
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 20 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:154102 BIOSIS
DOCUMENT NUMBER: PREV200300154102
TITLE: The STE20 **kinase** HGK is broadly **expressed** in **human** tumor cells and can modulate cellular transformation, invasion, and adhesion.
AUTHOR(S): Wright, Jocelyn H. [Reprint Author]; Wang, Xueyan; Manning, Gerard; LaMere, Brandon J.; Le, Phuong; Zhu, Shirley; Khatry, Deepak; Flanagan, Peter M.; Buckley, Sharon D.; Whyte, David B.; Howlett, Anthony R.; Bischoff, James R.; Lipson, Kenneth E.; Jallal, Bahija
CORPORATE SOURCE: Sugen, Inc., South San Francisco, CA, 94080, USA
jocelyn-wright@sugen.com
SOURCE: Molecular and Cellular Biology, (March 2003) Vol. 23, No. 6, pp. 2068-2082. print.
ISSN: 0270-7306 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 26 Mar 2003

Last Updated on STN: 26 Mar 2003

L16 ANSWER 21 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:970328 HCAPLUS
DOCUMENT NUMBER: 140:108559
TITLE: RIFLE: A novel ring zinc finger-leucine-rich repeat containing protein, regulates select cell adhesion molecules in PC12 cells
AUTHOR(S): Li, Baolin; Su, Yuan; Ryder, John; Yan, Lei; Na, Songqing; Ni, Binhui
CORPORATE SOURCE: Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SOURCE: Journal of Cellular Biochemistry (2003), 90(6), 1224-1241
CODEN: JCEBD5; ISSN: 0730-2312
PUBLISHER: Wiley-Liss, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 22 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:512497 HCAPLUS
DOCUMENT NUMBER: 139:177473
TITLE: JNK-mediated BIM phosphorylation potentiates BAX-dependent apoptosis
AUTHOR(S): Putcha, Girish V.; Le, Siyuan; Frank, Stephan; Besirli, Cagri G.; Clark, Kim; Chu, Boyang; Alix, Shari; Youle, Richard J.; LaMarche, Art; Maroney, Anna C.; Johnson, Eugene M., Jr.
CORPORATE SOURCE: Department of Neurology and Department of Molecular Biology and Pharmacology, Washington University School of Medicine, Saint Louis, MO, 63110, USA
SOURCE: Neuron (2003), 38(6), 899-914
CODEN: NERNET; ISSN: 0896-6273
PUBLISHER: Cell Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 23 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2003:636191 SCISEARCH
THE GENUINE ARTICLE: 703MT
TITLE: Analysis of promoter hypermethylation of death-associated protein **kinase** and p16 tumor suppressor genes in actinic keratoses and squamous cell **carcinomas** of the skin
AUTHOR: Tyler L N; Ai L B; Zuo C L; Fan C Y; Smoller B R (Reprint)
CORPORATE SOURCE: Univ Arkansas Med Sci, Dept Pathol, 4301 W Markham, Slot 517, Little Rock, AR 72205 USA (Reprint); Univ Arkansas Med Sci, Dept Pathol, Little Rock, AR 72205 USA; Univ Arkansas Med Sci, Dept Dermatol, Little Rock, AR 72205 USA; John L McClellan Mem Vet Adm Hosp, Little Rock, AR USA
COUNTRY OF AUTHOR: USA
SOURCE: MODERN PATHOLOGY, (JUL 2003) Vol. 16, No. 7, pp. 660-664. Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA. ISSN: 0893-3952.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 37
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 24 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:501507 BIOSIS
DOCUMENT NUMBER: PREV200300497958
TITLE: Thr55 phosphorylation by ERK2 is related to doxorubicin-induced p53 activation and cellular apoptosis.
AUTHOR(S): Yeh, Pei Yen [Reprint Author]; Chuang, Shuang-En; Yeh, Kun-Huei; Song, Ying-Chyi; Chang, Ling-Yuan; Cheng, Ann-Lii
CORPORATE SOURCE: Cancer Research Center, Dept. of Oncology, National Taiwan University Hospital, Taipei, Taiwan
SOURCE: Proceedings of the American Association for Cancer Research Annual Meeting, (July 2003) Vol. 44, pp. 657. print.
Meeting Info.: 94th Annual Meeting of the American Association for Cancer Research. Washington, DC, USA. July 11-14, 2003.
ISSN: 0197-016X.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Oct 2003
Last Updated on STN: 29 Oct 2003

L16 ANSWER 25 OF 126 MEDLINE on STN DUPLICATE 4
ACCESSION NUMBER: 2003556714 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14637150
TITLE: Transforming growth factor-beta1 stimulated protein **kinase** B **serine**-473 and focal adhesion **kinase** tyrosine phosphorylation dependent on cell adhesion in **human** hepatocellular **carcinoma** SMMC-7721 cells.
AUTHOR: Xu Zhen; Ma Dong-zhu; Wang Li-ying; Su Jian-min; Zha Xi-liang
CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, Ministry of Education, Shanghai Medical College, Fudan University, Shanghai, 200032, China.
SOURCE: Biochemical and biophysical research communications, (2003 Dec 12) 312 (2) 388-96.
Journal code: 0372516. ISSN: 0006-291X.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200402
ENTRY DATE: Entered STN: 20031126
Last Updated on STN: 20040221
Entered Medline: 20040220

L16 ANSWER 26 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2003:269810 SCISEARCH
THE GENUINE ARTICLE: 657LQ
TITLE: Anticancer potential of curcumin: Preclinical and clinical studies
AUTHOR: Aggarwal B B (Reprint); Kumar A; Bharti A C
CORPORATE SOURCE: Univ Texas, MD Anderson Canc Ctr, Cytokine Res Sect, Dept Bioimmunotherapy, 1515 Holcombe Blvd, Box 143, Houston, TX 77030 USA (Reprint); Univ Texas, MD Anderson Canc Ctr, Cytokine Res Sect, Dept Bioimmunotherapy, Houston, TX 77030 USA
COUNTRY OF AUTHOR: USA
SOURCE: ANTICANCER RESEARCH, (JAN-FEB 2003) Vol. 23, No. 1A, pp. 363-398.
Publisher: INT INST ANTICANCER RESEARCH, EDITORIAL OFFICE 1ST KM KAPANDRITIOU-KALAMOU RD KAPANDRITI, PO BOX 22, ATHENS 19014, GREECE.

ISSN: 0250-7005.
DOCUMENT TYPE: General Review; Journal
LANGUAGE: English
REFERENCE COUNT: 336
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 27 OF 126 MEDLINE on STN DUPLICATE 5
ACCESSION NUMBER: 2003084666 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12596061
TITLE: **Expression** of integrin-linked **kinase** is closely correlated with invasion and metastasis of gastric **carcinoma**.
AUTHOR: Ito Reiko; Oue Naohide; Zhu Xudong; Yoshida Kazuhiro; Nakayama Hirofumi; Yokozaki Hiroshi; Yasui Wataru
CORPORATE SOURCE: Department of Molecular Pathology, Hiroshima University Graduate School of Biomedical Sciences, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan.
SOURCE: Virchows Archiv : an international journal of pathology, (2003 Feb) 442 (2) 118-23.
Journal code: 9423843. ISSN: 0945-6317.
PUB. COUNTRY: Germany: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200304
ENTRY DATE: Entered STN: 20030222
Last Updated on STN: 20030423
Entered Medline: 20030422

L16 ANSWER 28 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2004:202345 BIOSIS
DOCUMENT NUMBER: PREV200400202888
TITLE: Cdk5 and tau phosphorylation during apoptosis in mouse **brain** cortical cells.
AUTHOR(S): Shelton, S. B. [Reprint Author]; Krishnamurthy, P. K. [Reprint Author]; Johnson, G. V. W. [Reprint Author]
CORPORATE SOURCE: Psychiatry, Univ. Alabama-Birmingham, Birmingham, AL, USA
SOURCE: Society for Neuroscience Abstract Viewer and Itinerary Planner, (2003) Vol. 2003, pp. Abstract No. 628.5. http://sfn.scholarone.com. e-file.
Meeting Info.: 33rd Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 08-12, 2003. Society of Neuroscience.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 14 Apr 2004
Last Updated on STN: 14 Apr 2004

L16 ANSWER 29 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 6
ACCESSION NUMBER: 2003-01894 BIOTECHDS
TITLE: Novel polynucleotide encoding **human** proteins that are structurally similar to animal **kinases**, useful for drug screening, diagnosis, in gene therapy of disorders and diseases e.g. cancer and pharmacogenomic applications; **recombinant** enzyme protein production and sense and antisense sequence use in disease therapy and gene therapy
AUTHOR: YU X; MIRANDA M; FRIDDLE C J
PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO: WO 2002059325 1 Aug 2002
APPLICATION INFO: WO 2001-US50497 20 Dec 2001
PRIORITY INFO: US 2000-258335 27 Dec 2000; US 2000-258335 27 Dec 2000

DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2002-599796 [64]

L16 ANSWER 30 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 7
ACCESSION NUMBER: 2002-12398 BIOTECHDS
TITLE: Novel polynucleotide encoding novel **human** protein sharing structural similarity with animal **kinases** e.g. **serine-threonine**, calcium/calmodulin-dependent, and myosin light chain **kinases**, useful as probes and primers;
vector-mediated gene transfer, **expression** in host cell, antibody, antisense oligonucleotide and ribozyme for **recombinant** protein production, drug screening and gene therapy
AUTHOR: FRIDDLE C J; HILBUN E; NEPOMNICHY B; HU Y
PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO: WO 2002018555 7 Mar 2002
APPLICATION INFO: WO 2000-US26776 31 Aug 2000
PRIORITY INFO: US 2000-229280 31 Aug 2000
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2002-292200 [33]

L16 ANSWER 31 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 2003-02175 BIOTECHDS
TITLE: New WEE1-like **serine/threonine** protein **kinase** polypeptide and polynucleotide, useful for modulating the activity of the protein **kinase** to treat cancer, nervous system disorders or cardiovascular disorders;
vector-mediated **recombinant** protein-**kinase** gene transfer and **expression** in COS-1 for disease diagnosis and gene therapy
AUTHOR: KOEHLER R H
PATENT ASSIGNEE: BAYER AG
PATENT INFO: WO 2002061057 8 Aug 2002
APPLICATION INFO: WO 2002-EP912 30 Jan 2002
PRIORITY INFO: US 2001-334974 4 Dec 2001; US 2001-265352 1 Feb 2001
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2002-619243 [66]

L16 ANSWER 32 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 2003-00776 BIOTECHDS
TITLE: Novel polynucleotides encoding **human** proteins that are structurally related to animal **kinases**, useful for drug screening, diagnosis and in gene therapy of biological disorders;
vector-mediated **recombinant** protein gene transfer and **expression** in host cell for use in drug screening and nootropic disease and mental disorder diagnosis and gene therapy
AUTHOR: TURNER C A; MATHUR B; FRIDDLE C J
PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO: WO 2002048333 20 Jun 2002
APPLICATION INFO: WO 2001-US49068 12 Dec 2001
PRIORITY INFO: US 2001-289422 8 May 2001; US 2000-255103 12 Dec 2000
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2002-583505 [62]

L16 ANSWER 33 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

ACCESSION NUMBER: 2002-19916 BIOTECHDS
TITLE: A **human** MDM2 nucleic acid molecule useful for diagnosing neoplasia or the potential for neoplastic transformation;
antisense RNA for use in tumor gene therapy
AUTHOR: KINZLER K W; VOGELSTEIN B
PATENT ASSIGNEE: UNIV JOHNS HOPKINS
PATENT INFO: US 6399755 4 Jun 2002
APPLICATION INFO: US 1992-170159 7 Apr 1992
PRIORITY INFO: US 1998-170159 13 Oct 1998
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2002-535988 [57]

L16 ANSWER 34 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 2002-17807 BIOTECHDS
TITLE: Nucleic acid molecules encoding calcium/calmodulin-dependent protein **kinases**, useful for preventing diagnosing and treating e.g. cancers, psoriasis and inflammation;
recombinant protein production by vector-mediated gene transfer and **expression** in host cell, useful for gene therapy
AUTHOR: YE J; YAN C; DI FRANCESCO V; BEASLEY E M
PATENT ASSIGNEE: PE CORP NY
PATENT INFO: US 6387677 14 May 2002
APPLICATION INFO: US 2001-800960 8 Mar 2001
PRIORITY INFO: US 2001-800960 8 Mar 2001
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2002-478444 [51]

L16 ANSWER 35 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:793831 HCAPLUS
DOCUMENT NUMBER: 137:305800
TITLE: Protein, gene and cDNA sequences of a novel **human** protein **kinase** related to **serine/threonine kinase** and their uses in drug screening
INVENTOR(S): Webster, Marion; Yan, Chunhua; Di Francesco, Valentina; Beasley, Ellen M.
PATENT ASSIGNEE(S): PE Corporation (NY), USA
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081727	A2	20021017	WO 2002-US10156	20020402
WO 2002081727	A3	20030710		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6500656	B1	20021231	US 2001-873404	20010605
EP 1385865	A2	20040204	EP 2002-763884	20020402

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.: US 2001-824583 A 20010403
US 2001-873404 A 20010605
WO 2002-US10156 W 20020402

L16 ANSWER 36 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:293825 HCAPLUS
DOCUMENT NUMBER: 136:321268
TITLE: Protein and cDNA sequences of **human** **kinase** sequence homologs
INVENTOR(S): Turner, C. Alexander, Jr.; Mathur, Brian
PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031129	A2	20020418	WO 2001-US32010	20011011
WO 2002031129	A3	20030206		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002013183	A5	20020422	AU 2002-13183	20011011
US 2002128458	A1	20020912	US 2001-975326	20011011
US 6476210	B2	20021105		
US 2003023063	A1	20030130	US 2002-217357	20020809
US 6610537	B2	20030826		
US 2003207319	A1	20031106	US 2003-462887	20030617

PRIORITY APPLN. INFO.: US 2000-239821P P 20001012
US 2001-975326 A1 20011011
WO 2001-US32010 W 20011011
US 2002-217357 A3 20020809

L16 ANSWER 37 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:157957 HCAPLUS
DOCUMENT NUMBER: 136:195349
TITLE: Protein, gene and cDNA sequences of **human** protein **kinase** sequence homolog and diagnostic and therapeutic uses thereof
INVENTOR(S): Yan, Chunhua; Ye, Jane; Ketchum, Karen A.; Di Francesco, Valentina; Beasley, Ellen M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016567	A2	20020228	WO 2001-US26389	20010824
WO 2002016567	A3	20030130		

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        W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
            PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2002076783      A1   20020620       US 2001-810671   20010319
     US 6455291         B2   20020924
     AU 2001086687      A5   20020304       AU 2001-86687    20010824
     EP 1313844         A2   20030528       EP 2001-966150   20010824
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     US 2002119548      A1   20020829       US 2002-109854   20020401
     US 6630337         B2   20031007
     US 2003134319      A1   20030717       US 2003-339656   20030110
     US 6733978         B2   20040511
PRIORITY APPLN. INFO.:                  US 2000-227470P  P  20000824
                                        US 2001-810671   A  20010319
                                        WO 2001-US26389  W  20010824
                                        US 2002-109854   A3 20020401

L16  ANSWER 38 OF 126  HCAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2002:941845  HCAPLUS
DOCUMENT NUMBER:          138:21334
TITLE:                    Protein, gene and cDNA sequences of a novel
                          human protein kinase related to
                          serine/threonine kinase
                          and their uses in drug screening
INVENTOR(S):              Yan, Chunhua; Li, Zhenya; Neelam, Beena; Difrancesco,
                          Valentina; Beasley, Ellen M.
PATENT ASSIGNEE(S):       PE Corporation (Ny), USA
SOURCE:                   U.S., 107 pp.
                          CODEN: USXXAM
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND  DATE           APPLICATION NO.  DATE
     ----------------    ----  --------       ---------------  --------
     US 6492156          B1    20021210       US 2001-984890   20011031
     US 2003232408       A1    20031218       US 2002-274194   20021021
     US 6706511          B2    20040316
     WO 2003038115       A2    20030508       WO 2002-US34869  20021031
     WO 2003038115       A3    20040122
        W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
            UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
            RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
            CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
            NE, SN, TD, TG
PRIORITY APPLN. INFO.:                  US 2001-984890   A3 20011031
REFERENCE COUNT:          1     THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16  ANSWER 39 OF 126  HCAPLUS  COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER: 2002:937303 HCAPLUS
DOCUMENT NUMBER: 138:20443
TITLE: Endocrine disruptor screening using DNA chips of endocrine disruptor-responsive genes
INVENTOR(S): Kondo, Akihiro; Takeda, Takeshi; Mizutani, Shigetoshi; Tsujimoto, Yoshimasa; Takashima, Ryokichi; Enoki, Yuki; Kato, Ikunoshin
PATENT ASSIGNEE(S): Takara Bio Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 386 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002355079	A2	20021210	JP 2002-69354	20020313

PRIORITY APPLN. INFO.: JP 2001-73183 A 20010314
JP 2001-74993 A 20010315
JP 2001-102519 A 20010330

L16 ANSWER 40 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:794454 HCAPLUS
DOCUMENT NUMBER: 137:274059
TITLE: Protein and cDNA sequences of **human serine**/arginine-rich protein specific **serine kinase** 212.98 and therapeutical uses
INVENTOR(S): Mao, Yumin; Xie, Yi
PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1331319	A	20020116	CN 2000-116940	20000630
WO 2002026791	A1	20020404	WO 2001-CN1069	20010629

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: CN 2000-116940 A 20000630

L16 ANSWER 41 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:779935 HCAPLUS
DOCUMENT NUMBER: 137:258603
TITLE: **Human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses
INVENTOR(S): Mao, Yumin; Xie, Yi
PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.

CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1331241	A	20020116	CN 2000-116976	20000630
WO 2002012486	A1	20020214	WO 2001-CN1071	20010629

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2002014912	A5	20020218	AU 2002-14912	20010629

PRIORITY APPLN. INFO.:
CN 2000-116976 A 20000630
WO 2001-CN1071 W 20010629

L16 ANSWER 42 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:732013 HCAPLUS
DOCUMENT NUMBER: 138:1084
TITLE: **Human serine/threonine** protein **kinase**-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses
INVENTOR(S): Mao, Yumin; Xie, Yi
PATENT ASSIGNEE(S): Shanghai Bode Gene Development Co., Ltd., Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 38 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1329157	A	20020102	CN 2000-116663	20000621

PRIORITY APPLN. INFO.:
CN 2000-116663 20000621

L16 ANSWER 43 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:315522 BIOSIS
DOCUMENT NUMBER: PREV200200315522
TITLE: Akt mediates sequestration of the beta2-adrenergic receptor in response to insulin.
AUTHOR(S): Doronin, Sergey; Shumay, Elena; Wang, Hsien-yu; Malbon, Craig C. [Reprint author]
CORPORATE SOURCE: Pharmacology-HSC, SUNY/Stony Brook, Stony Brook, NY, 11794-8651, USA
craig@pharm.som.sunysb.edu
SOURCE: Journal of Biological Chemistry, (April 26, 2002) Vol. 277, No. 17, pp. 15124-15131. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 29 May 2002
Last Updated on STN: 29 May 2002

L16 ANSWER 44 OF 126 MEDLINE on STN

ACCESSION NUMBER: 2002359352 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12102637
TITLE: Kinetic mechanism for **human** Rho-**Kinase** II (ROCK-II).
AUTHOR: Trauger John W; Lin Fen-Fen; Turner Mary S; Stephens Jeffrey; LoGrasso Philip V
CORPORATE SOURCE: Department of Molecular Neuroscience, Merck Research Laboratories, 3535 General Atomics Court, San Diego, CA 92121, USA.
SOURCE: Biochemistry, (2002 Jul 16) 41 (28) 8948-53.
Journal code: 0370623. ISSN: 0006-2960.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200208
ENTRY DATE: Entered STN: 20020710
Last Updated on STN: 20020827
Entered Medline: 20020826

L16 ANSWER 45 OF 126 MEDLINE on STN DUPLICATE 8
ACCESSION NUMBER: 2002677795 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12438260
TITLE: Promoter hypermethylation of the death-associated protein **kinase** gene in **breast** cancer is associated with the invasive lobular subtype.
COMMENT: Erratum in: Cancer Res. 2003 Aug 15;63(16):5171
AUTHOR: Lehmann Ulrich; Celikkaya Gulhan; Hasemeier Britta; Langer Florian; Kreipe Hans
CORPORATE SOURCE: Institute of Pathology, Department of Pathology, Medizinische Hochschule Hannover, D-30625 Hannover, Germany.. Lehmann.Ulrich@MH-Hannover.de
SOURCE: Cancer research, (2002 Nov 15) 62 (22) 6634-8.
Journal code: 2984705R. ISSN: 0008-5472.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200212
ENTRY DATE: Entered STN: 20021120
Last Updated on STN: 20021218
Entered Medline: 20021217

L16 ANSWER 46 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:431766 HCAPLUS
DOCUMENT NUMBER: 138:53396
TITLE: Regulation of DNA replication fork genes by 17β-estradiol
AUTHOR(S): Lobenhofer, Edward K.; Bennett, Lee; Cable, P. Louann; Li, Leping; Bushel, Pierre R.; Afshari, Cynthia A.
CORPORATE SOURCE: Gene Regulation Group, National Institute of Environmental Health Sciences, Research Triangle Park, NC, 27709, USA
SOURCE: Molecular Endocrinology (2002), 16(6), 1215-1229
CODEN: MOENEN; ISSN: 0888-8809
PUBLISHER: Endocrine Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 47 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:850858 HCAPLUS
DOCUMENT NUMBER: 138:134695

TITLE: β-catenin and cyclin D1 **expression** in **human** hepatocellular **carcinoma**
AUTHOR(S): Ueta, Tsuyoshi; Ikeguchi, Masahide; Hirooka, Yasuaki; Kaibara, Nobuaki; Terada, Tadashi
CORPORATE SOURCE: The Second Department of Pathology, Faculty of Medicine, Tottori University, Yonago, Japan
SOURCE: Oncology Reports (2002), 9(6), 1197-1203
CODEN: OCRPEW; ISSN: 1021-335X
PUBLISHER: Oncology Reports
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 48 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:795701 HCAPLUS
DOCUMENT NUMBER: 138:83537
TITLE: **Serine** 331 is major site of phosphorylation and desensitization induced by protein **kinase** C in thromboxane receptor α
AUTHOR(S): Yan, Feng-Xiang; Yamamoto, Shuichi; Zhou, Hui-Ping; Tai, Hsin-Hsiung; Liao, Duan-Fang
CORPORATE SOURCE: Institute of Pharmacy and Pharmacology, Nanhua University, Hengyang, 421001, Peop. Rep. China
SOURCE: Acta Pharmacologica Sinica (2002), 23(10), 952-960
CODEN: APSCG5; ISSN: 1671-4083
PUBLISHER: Science Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 49 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:7755 BIOSIS
DOCUMENT NUMBER: PREV200300007755
TITLE: The docking protein FRS2alpha controls a MAP **kinase** -mediated negative feedback mechanism for signaling by FGF receptors.
AUTHOR(S): Lax, Irit; Wong, Andy; Lamothe, Betty; Lee, Arnold; Frost, Adam; Hawes, Jessica; Schlessinger, Joseph [Reprint Author]
CORPORATE SOURCE: Department of Pharmacology, Yale University School of Medicine, New Haven, CT, 06520, USA
joseph.schlessinger@yale.edu
SOURCE: Molecular Cell, (October 2002) Vol. 10, No. 4, pp. 709-719. print.
ISSN: 1097-2765 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 18 Dec 2002
Last Updated on STN: 18 Dec 2002

L16 ANSWER 50 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:238186 BIOSIS
DOCUMENT NUMBER: PREV200200238186
TITLE: Activation of AKT/PKB in **breast** cancer predicts a worse outcome among endocrine treated patients.
AUTHOR(S): Perez-Tenorio, G. [Reprint author]; Stal, O.; Members of the Southeast Sweden Breast Cancer Group
CORPORATE SOURCE: Department of Biomedicine and Surgery, Division of Oncology, Clinical Research Center, Faculty of Health Sciences, Linkoping University, SE-581 85, Linkoping, Sweden
gizpe@ibk.liu.se
SOURCE: British Journal of Cancer, (12 February, 2002) Vol. 86, No.

4, pp. 540-545. print.
CODEN: BJCAAI. ISSN: 0007-0920.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Apr 2002
Last Updated on STN: 10 Apr 2002

L16 ANSWER 51 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:224694 HCAPLUS
DOCUMENT NUMBER: 136:382092
TITLE: Identification and characterization of four novel phosphorylation sites (Ser31, Ser325, Thr336 and Thr366) on LKB1/STK11, the protein **kinase** mutated in Peutz-Jeghers cancer syndrome
AUTHOR(S): Sapkota, Gopal P.; Boudeau, Jerome; Deak, Maria; Kieloch, Agnieszka; Morrice, Nick; Alessi, Dario R.
CORPORATE SOURCE: MRC Protein Phosphorylation Unit, MSI/WTB, University of Dundee, Dundee, DD1 5EH, UK
SOURCE: Biochemical Journal (2002), 362(2), 481-490
CODEN: BIJOAK; ISSN: 0264-6021
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 52 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:195581 BIOSIS
DOCUMENT NUMBER: PREV200200195581
TITLE: Cyclin-dependent **kinase** 5 prevents neuronal apoptosis by negative regulation of c-Jun N-terminal **kinase** 3.
AUTHOR(S): Li, Bing-Sheng; Zhang, Lei; Takahashi, Satoru; Ma, Wu; Jaffe, Howard; Kulkarni, Ashok B.; Pant, Harish C. [Reprint author]
CORPORATE SOURCE: Laboratory of Neurochemistry, NINDS, NIH, Bethesda, MD, 20892-4130, USA
panth@ninds.nih.gov
SOURCE: EMBO (European Molecular Biology Organization) Journal, (February 1, 2002) Vol. 21, No. 3, pp. 324-333. print.
CODEN: EMJODG. ISSN: 0261-4189.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 13 Mar 2002
Last Updated on STN: 13 Mar 2002

L16 ANSWER 53 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 2003-03251 BIOTECHDS
TITLE: Estrogen regulation of uterine genes in vivo detected by complementary DNAarray;
gene **expression** pattern regulation, DNA array and polymerase chain reaction for therapy and pharmacogenetics
AUTHOR: ANDRADE PM; SILVA IDCG; BORRA RC; DE LIMA GR; BARACAT EC
CORPORATE SOURCE: Univ Fed Sao Paulo
LOCATION: Andrade PM, Univ Fed Sao Paulo, Av Dr Altino Arantes 835,Apt 41, BR-04042034 Sao Paulo,Brazil
SOURCE: HORMONE AND METABOLIC RESEARCH; (2002) 34, 5, 238-244
ISSN: 0018-5043
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 54 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:379965 BIOSIS

DOCUMENT NUMBER: PREV200200379965
TITLE: Different cellular localization, translocation, and insulin-induced phosphorylation of PKBalpha in HepG2 cells and hepatocytes.
AUTHOR(S): Syed, Noor Afshan; Horner, Kyla Nadine; Misra, Vikram; Khandelwal, Ramji Lal [Reprint author]
CORPORATE SOURCE: Department of Biochemistry, University of Saskatchewan, 107 Wiggins Road, Saskatoon, SK, S7N 5E5, Canada
ramji.khandelwal@usask.ca
SOURCE: Journal of Cellular Biochemistry, (2002) Vol. 86, No. 1, pp. 118-127. print.
CODEN: JCEBD5. ISSN: 0730-2312.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Jul 2002
Last Updated on STN: 10 Jul 2002

L16 ANSWER 55 OF 126 MEDLINE on STN
ACCESSION NUMBER: 2002411066 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12164932
TITLE: Ganglioside loss promotes survival primarily by activating integrin-linked **kinase**/Akt without phosphoinositide 3-OH **kinase** signaling.
AUTHOR: Sun Ping; Wang Xiao-Qi; Lopatka Keith; Bangash Suleman; Paller Amy S
CORPORATE SOURCE: Department of Pediatrics, Children's Memorial Institute for Education and Research, North-western University Medical School, 2300 Children's Plaza, Chicago, IL 60614, U.S.A.
CONTRACT NUMBER: R01 AR 44619 (NIAMS)
SOURCE: Journal of investigative dermatology, (2002 Jul) 119 (1) 107-17.
Journal code: 0426720. ISSN: 0022-202X.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200209
ENTRY DATE: Entered STN: 20020808
Last Updated on STN: 20020918
Entered Medline: 20020917

L16 ANSWER 56 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:440336 HCAPLUS
DOCUMENT NUMBER: 138:100430
TITLE: Distinct mechanisms of Taxol-induced **serine** phosphorylation of the 66-kDa Shc isoform in A549 and RAW 264.7 cells
AUTHOR(S): Yang, Chia-Ping Huang; Horwitz, Susan Band
CORPORATE SOURCE: Department of Molecular Pharmacology, Albert Einstein College of Medicine, Bronx, NY, 10461, USA
SOURCE: Biochimica et Biophysica Acta (2002), 1590(1-3), 76-83
CODEN: BBACAQ; ISSN: 0006-3002
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 57 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:618177 HCAPLUS
DOCUMENT NUMBER: 135:191337
TITLE: Protein and cDNA sequences of novel **human** **kinase** homologs and uses thereof in diagnosis, therapy and drug screening

INVENTOR(S): Walke, D. Wade; Hu, Yi; Nepomnichy, Boris; Turner, C. Alexander, Jr.; Zambrowicz, Brian
PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001061016	A2	20010823	WO 2001-US5356	20010215
WO 2001061016	A3	20020207		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002038011	A1	20020328	US 2001-783320	20010215
EP 1257652	A2	20021120	EP 2001-912839	20010215
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531577	T2	20031028	JP 2001-559853	20010215

PRIORITY APPLN. INFO.:
US 2000-183582P P 20000218
US 2000-184014P P 20000222
WO 2001-US5356 W 20010215

L16 ANSWER 58 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:565235 HCAPLUS
DOCUMENT NUMBER: 135:164088
TITLE: Novel **human** protein **kinases** and protein **kinase**-like enzymes and their diagnostic and therapeutic use
INVENTOR(S): Plowman, Gregory; Whyte, David; Manning, Gerard; Sudarsanam, Sucha; Martinez, Ricardo
PATENT ASSIGNEE(S): Sugen, Inc., USA
SOURCE: PCT Int. Appl., 218 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001055356	A2	20010802	WO 2001-US2337	20010125
WO 2001055356	A3	20020328		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001034544	A5	20010807	AU 2001-34544	20010125
EP 1254214	A2	20021106	EP 2001-906658	20010125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

JP 2003520602	T2	20030708	JP 2001-554387		20010125
US 2004048310	A1	20040311	US 2003-182243		20030116
PRIORITY APPLN. INFO.:			US 2000-178078P	P	20000125
			US 2000-179364P	P	20000131
			US 2000-183173P	P	20000217
			US 2000-190162P	P	20000317
			US 2000-193404P	P	20000329
			US 2000-247013P	P	20001113
			WO 2001-US2337	W	20010125

L16 ANSWER 59 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:435241 HCAPLUS
DOCUMENT NUMBER: 135:41828
TITLE: Protein and cDNA sequences of a novel **human** protein **kinase** homolog and uses thereof in diagnosis, therapy and drug screening
INVENTOR(S): Donoho, Gregory; Scoville, John; Turner, C. Alexander, Jr.; Friedrich, Glenn; Zambrowicz, Brian; Abuin, Alejandro; Sands, Arthur T.
PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042435	A2	20010614	WO 2000-US33240	20001207
WO 2001042435	A3	20011108		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1240187	A2	20020918	EP 2000-989231	20001207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003064495	A1	20030403	US 2000-733388	20001207
US 6602698	B2	20030805		
JP 2004504005	T2	20040212	JP 2001-544312	20001207
US 2004014112	A1	20040122	US 2003-446175	20030527
PRIORITY APPLN. INFO.:			US 1999-169428P	P 19991207
			US 2000-733388	A1 20001207
			WO 2000-US33240	W 20001207

L16 ANSWER 60 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:417006 HCAPLUS
DOCUMENT NUMBER: 135:29886
TITLE: Protein and cDNA of a **human** protein **kinase** 9 and therapeutic use thereof
INVENTOR(S): Mao, Yumin; Xie, Yi
PATENT ASSIGNEE(S): Bioroad Gene Development Ltd. Shanghai, Peop. Rep. China
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040298	A1	20010607	WO 2000-CN513	20001127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CN 1298008	A	20010606	CN 1999-124171	19991130

PRIORITY APPLN. INFO.: CN 1999-124171 A 19991130
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 61 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:416993 HCAPLUS
DOCUMENT NUMBER: 135:41807
TITLE: Protein and cDNA of a **human** protein **kinase** 38 and therapeutic use thereof
INVENTOR(S): Mao, Yumin; Xie, Yi
PATENT ASSIGNEE(S): Bioroad Gene Development Ltd. Shanghai, Peop. Rep. China
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040285	A1	20010607	WO 2000-CN501	20001127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CN 1298010	A	20010606	CN 1999-124161	19991130

PRIORITY APPLN. INFO.: CN 1999-124161 A 19991130
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 62 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:397023 HCAPLUS
DOCUMENT NUMBER: 135:30738
TITLE: Novel **human** protein **kinases** and protein **kinase**-like enzymes and their cDNA sequences
INVENTOR(S): Plowman, Gregory D.; Whyte, David; Manning, Gerard; Sudarsanam, Sucha; Martinez, Ricardo; Flanagan, Peter; Clary, Douglas
PATENT ASSIGNEE(S): Sugen, Inc., USA
SOURCE: PCT Int. Appl., 433 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001038503	A2	20010531	WO 2000-US32085	20001122
WO 2001038503	A3	20020131		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1240194	A2	20020918	EP 2000-982200	20001122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003514583	T2	20030422	JP 2001-540254	20001122

PRIORITY APPLN. INFO.: US 1999-167482P A1 19991124
WO 2000-US32085 W 20001122

L16 ANSWER 63 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:783499 HCAPLUS
DOCUMENT NUMBER: 136:304881
TITLE: Sak **serine-threonine kinase** acts as an effector of Tec tyrosine **kinase**
AUTHOR(S): Yamashita, Yoshihiro; Kajigaya, Sachiko; Yoshida, Koji; Ueno, Shuichi; Ota, Jun; Ohmine, Ken; Ueda, Masuzu; Miyazato, Akira; Ohya, Ken-Ichi; Kitamura, Toshio; Ozawa, Keiya; Mano, Hiroyuki
CORPORATE SOURCE: Functional Genomics, Jichi Medical School, Tochigi, 329-0498, Japan
SOURCE: Journal of Biological Chemistry (2001), 276(42), 39012-39020
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 64 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2001:240893 SCISEARCH
THE GENUINE ARTICLE: 411AA
TITLE: Identification of the E2A gene products as regulatory targets of the G(1) cyclin-dependent **kinases**
AUTHOR: Chu C; Khotz D S (Reprint)
CORPORATE SOURCE: Mt Sinai Sch Med, Dept Pathol 1194, 1 Gustave Levy Pl, New York, NY 10029 USA (Reprint); Mt Sinai Sch Med, Dept Pathol 1194, New York, NY 10029 USA
COUNTRY OF AUTHOR: USA
SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (16 MAR 2001) Vol. 276, No. 11, pp. 8524-8534.
Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814 USA.
ISSN: 0021-9258.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 88

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 65 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:656546 HCAPLUS
DOCUMENT NUMBER: 135:342325
TITLE: Transcriptional hyperactivity of **human** progesterone receptors is coupled to their ligand-dependent down-regulation by mitogen-activated protein **kinase**-dependent phosphorylation of **serine** 294
AUTHOR(S): Shen, Tianjie; Horwitz, Kathryn B.; Lange, Carol A.
CORPORATE SOURCE: Department of Medicine, The Molecular Biology Program, University of Colorado Health Sciences Center, Denver, CO, 80262, USA
SOURCE: Molecular and Cellular Biology (2001), 21(18), 6122-6131
CODEN: MCEBD4; ISSN: 0270-7306
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 66 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:295931 HCAPLUS
DOCUMENT NUMBER: 135:59309
TITLE: Transcriptional gene **expression** profiles of colorectal adenoma, adenocarcinoma, and normal tissue examined by oligonucleotide arrays
AUTHOR(S): Notterman, Daniel A.; Alon, Uri; Sierk, Alexander J.; Levine, Arnold J.
CORPORATE SOURCE: Department of Molecular Biology, Princeton University, Princeton, NJ, 08544, USA
SOURCE: Cancer Research (2001), 61(7), 3124-3130
CODEN: CNREA8; ISSN: 0008-5472
PUBLISHER: American Association for Cancer Research
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 67 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:2452 BIOSIS
DOCUMENT NUMBER: PREV200200002452
TITLE: Subcellular localization and regulation of BACE in neuronal cells and **brain**.
AUTHOR(S): Han, P. [Reprint author]; Yan, R.; Luo, W. [Reprint author]; Honig, G. [Reprint author]; Netzer, W. [Reprint author]; Takahashi, R.; Greengard, P. [Reprint author]; Gouras, G. K. [Reprint author]; Xu, H. [Reprint author]
CORPORATE SOURCE: Mol. and Cell. Neurosci., Rockefeller University, New York, NY, USA
SOURCE: Society for Neuroscience Abstracts, (2001) Vol. 27, No. 2, pp. 2085. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Dec 2001
Last Updated on STN: 25 Feb 2002

L16 ANSWER 68 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2001:525640 BIOSIS
DOCUMENT NUMBER: PREV200100525640
TITLE: GABA-A receptor is a novel substrate of PKB/Akt.
AUTHOR(S): Wang, Y. S. [Reprint author]; Wang, Q. H. [Reprint author]; Liu, L. D. [Reprint author]; Ahmadian, G. [Reprint author]; Ju, W. [Reprint author]; Wang, Y. T. [Reprint author]
CORPORATE SOURCE: Dept Brain and Behavior Research, Hosp Sick Children and Univ. of Toronto, Toronto, ON, Canada
SOURCE: Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 1283. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 14 Nov 2001
Last Updated on STN: 23 Feb 2002

L16 ANSWER 69 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2001:256010 BIOSIS
DOCUMENT NUMBER: PREV200100256010
TITLE: Metastasis suppressor genes.
AUTHOR(S): Steeg, Patricia S. [Reprint author]
CORPORATE SOURCE: Laboratory of Pathology, NIH/NCI, 9000 Rockville Pike, Building 10, Room 2A33, Bethesda, MD, 20892, USA
SOURCE: FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A744. print.
Meeting Info.: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001. Orlando, Florida, USA. March 31-April 04, 2001.
CODEN: FAJOEC. ISSN: 0892-6638.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 23 May 2001
Last Updated on STN: 19 Feb 2002

L16 ANSWER 70 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:211830 HCAPLUS
DOCUMENT NUMBER: 134:349873
TITLE: Interaction of phospholipase D1 with a casein-**kinase**-2-like **serine kinase**
AUTHOR(S): Ganley, Ian G.; Walker, Stephanie J.; Manifava, Maria; Li, Donxia; Brown, H. Alex; Ktistakis, Nicholas T.
CORPORATE SOURCE: Signalling Programme, Babraham Institute, Cambridge, CB2 4AT, UK
SOURCE: Biochemical Journal (2001), 354(2), 369-378
CODEN: BIJOAK; ISSN: 0264-6021
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 71 OF 126 MEDLINE on STN
ACCESSION NUMBER: 2001362576 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11424085
TITLE: Role of AKT **kinase** in sphingosine-induced apoptosis in **human** hepatoma cells.
AUTHOR: Chang H C; Tsai L H; Chuang L Y; Hung W C
CORPORATE SOURCE: Department of Physiology, Kaohsiung Medical University,

Taiwan, Republic of China.
SOURCE: Journal of cellular physiology, (2001 Aug) 188 (2) 188-93.
Journal code: 0050222. ISSN: 0021-9541.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200108
ENTRY DATE: Entered STN: 20010813
Last Updated on STN: 20010813
Entered Medline: 20010809

L16 ANSWER 72 OF 126 MEDLINE on STN DUPLICATE 9
ACCESSION NUMBER: 2002009081 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11325528
TITLE: Regulation of the ErbB3 binding protein Ebp1 by protein **kinase** C.
AUTHOR: Lessor T J; Hamburger A W
CORPORATE SOURCE: Molecular and Cellular Biology Program, University of Maryland, Baltimore, MD 21201, USA.
CONTRACT NUMBER: RO1 CA76047 (NCI)
SOURCE: Molecular and cellular endocrinology, (2001 Apr 25) 175 (1-2) 185-91.
Journal code: 7500844. ISSN: 0303-7207.
PUB. COUNTRY: Ireland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200112
ENTRY DATE: Entered STN: 20020121
Last Updated on STN: 20020121
Entered Medline: 20011213

L16 ANSWER 73 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:607376 HCAPLUS
DOCUMENT NUMBER: 135:354307
TITLE: **Serine** 331 Is the Major Site of Receptor Phosphorylation Induced by Agents That Activate Protein **Kinase** G in HEK 293 Cells Overexpressing Thromboxane Receptor α
AUTHOR(S): Yamamoto, Shuichi; Yan, Fengxiang; Zhou, Huiping; Tai, Hsin-Hsiung
CORPORATE SOURCE: Division of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, Lexington, KY, 40536-0082, USA
SOURCE: Archives of Biochemistry and Biophysics (2001), 393(1), 97-105
CODEN: ABBIA4; ISSN: 0003-9861
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 74 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:490592 HCAPLUS
DOCUMENT NUMBER: 136:162056
TITLE: Highly abundant genes in the transcriptosome of **human** and baboon CD34 antigen-positive bone marrow cells
AUTHOR(S): Gomes, Ignatius; Sharma, Tiffany T.; Mahmud, Nadim; Kapp, Jeffrey D.; Edassery, Seby; Fulton, Noreen; Liang, Jie; Hoffman, Ronald; Westbrook, Carol A.
CORPORATE SOURCE: Department of Medicine and Department of

Bioengineering, University of Illinois, Chicago, IL, USA
SOURCE: Blood (2001), 98(1), 93-99
CODEN: BLOOAW; ISSN: 0006-4971
PUBLISHER: American Society of Hematology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 75 OF 126 MEDLINE on STN DUPLICATE 10
ACCESSION NUMBER: 2000428458 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10818091
TITLE: Tau phosphorylation at **serine** 396 and **serine** 404 by **human recombinant** tau protein **kinase** II inhibits tau's ability to promote microtubule assembly.
AUTHOR: Evans D B; Rank K B; Bhattacharya K; Thomsen D R; Gurney M E; Sharma S K
CORPORATE SOURCE: Pharmacia Corporation, Kalamazoo, Michigan 49007, USA.
SOURCE: Journal of biological chemistry, (2000 Aug 11) 275 (32) 24977-83.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200009
ENTRY DATE: Entered STN: 20000922
Last Updated on STN: 20020420
Entered Medline: 20000914

L16 ANSWER 76 OF 126 MEDLINE on STN DUPLICATE 11
ACCESSION NUMBER: 2001040267 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11029056
TITLE: Phosphorylation-dependent localization of microtubule-associated protein MAP2c to the actin cytoskeleton.
AUTHOR: Ozer R S; Halpain S
CORPORATE SOURCE: Department of Cell Biology, The Scripps Research Institute, La Jolla, California 92037, USA.
CONTRACT NUMBER: MH-12504 (NIMH)
MH-50861 (NIMH)
SOURCE: Molecular biology of the cell, (2000 Oct) 11 (10) 3573-87.
Journal code: 9201390. ISSN: 1059-1524.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200012
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001207

L16 ANSWER 77 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2000:302130 BIOSIS
DOCUMENT NUMBER: PREV200000302130
TITLE: Clavilactones, a novel class of tyrosine **kinase** inhibitors of fungal origin.
AUTHOR(S): Cassinelli, Giuliana; Lanzi, Cinzia [Reprint author]; Pensa, Tiziana; Gambetta, Romolo A.; Nasini, Gianluca; Cuccuru, Giuditta; Cassinis, Marco; Pratesi, Graziella; Polizzi, Donatella; Tortoreto, Monica; Zunino, Franco
CORPORATE SOURCE: Oncologia Sperimentale B, Istituto Nazionale Tumori, via

Venezian 1, 20133, Milan, Italy
SOURCE: Biochemical Pharmacology, (June 15, 2000) Vol. 59, No. 12, pp. 1539-1547. print.
CODEN: BCPCA6. ISSN: 0006-2952.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 12 Jul 2000
Last Updated on STN: 7 Jan 2002

L16 ANSWER 78 OF 126 MEDLINE on STN DUPLICATE 12
ACCESSION NUMBER: 2001062074 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10995806
TITLE: Hypermethylation of the death-associated protein (DAP) **kinase** promoter and aggressiveness in stage I non-small-cell lung cancer.
COMMENT: Comment in: J Natl Cancer Inst. 2000 Sep 20;92(18):1460-1.
PubMed ID: 10995795
AUTHOR: Tang X; Khuri F R; Lee J J; Kemp B L; Liu D; Hong W K; Mao L
CORPORATE SOURCE: Molecular Biology Laboratory, Department of Thoracic/Head and Neck Medical Oncology, The University of Texas M. D. Anderson Cancer Center, Houston, TX 77030, USA.
CONTRACT NUMBER: P30CA16620 (NCI)
U19CA68437 (NCI)
SOURCE: Journal of the National Cancer Institute, (2000 Sep 20) 92 (18) 1511-6.
Journal code: 7503089. ISSN: 0027-8874.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200012
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001228

L16 ANSWER 79 OF 126 MEDLINE on STN
ACCESSION NUMBER: 2000122566 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10655479
TITLE: Phosphorylation of **human** progesterone receptors at **serine**-294 by mitogen-activated protein **kinase** signals their degradation by the 26S proteasome.
AUTHOR: Lange C A; Shen T; Horwitz K B
CORPORATE SOURCE: Department of Medicine, The Molecular Biology Program, and The Colorado Cancer Center, University of Colorado Health Sciences Center, Denver, CO 80262, USA.
CONTRACT NUMBER: CA26869 (NCI)
DK48238 (NIDDK)
DK53825 (NIDDK)
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (2000 Feb 1) 97 (3) 1032-7.
Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200003
ENTRY DATE: Entered STN: 20000314
Last Updated on STN: 20000314
Entered Medline: 20000302

L16 ANSWER 80 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:398678 HCAPLUS

DOCUMENT NUMBER: 133:115255
TITLE: **Serine** residues 1177/78/82 of the insulin receptor are required for substrate phosphorylation but not autophosphorylation
AUTHOR(S): Bossenmaier, Birgit; Strack, Volker; Stoyanov, Borislav; Krutzfeldt, Jan; Beck, Alexander; Lehmann, Rainer; Kellerer, Monika; Klein, Harald; Ullrich, Axel; Lammers, Reiner; Haring, Hans-Ulrich
CORPORATE SOURCE: Roche Diagnostics, Penzberg, Germany
SOURCE: Diabetes (2000), 49(6), 889-895
CODEN: DIAEAZ; ISSN: 0012-1797
PUBLISHER: American Diabetes Association
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 81 OF 126 MEDLINE on STN
ACCESSION NUMBER: 2001087357 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11036205
TITLE: Induction of vascular endothelial growth factor receptors and phosphatidylinositol 3'-**kinase**/Akt signaling by global cerebral ischemia in the rat.
AUTHOR: Jin K L; Mao X O; Nagayama T; Goldsmith P C; Greenberg D A
CORPORATE SOURCE: Buck Center for Research in Aging, PO Box 638, CA 94948-0638, Novato, USA.
CONTRACT NUMBER: NS37695 (NINDS)
SOURCE: Neuroscience, (2000) 100 (4) 713-7.
Journal code: 7605074. ISSN: 0306-4522.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200101
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010118

L16 ANSWER 82 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:257655 HCAPLUS
DOCUMENT NUMBER: 133:40884
TITLE: LKB1, a novel **serine/threonine** protein **kinase** and potential tumour suppressor, is phosphorylated by cAMP-dependent protein **kinase** (PKA) and prenylated in vivo
AUTHOR(S): Collins, Sean P.; Reoma, Junewai L.; Gamm, David M.; Uhler, Michael D.
CORPORATE SOURCE: Department of Biological Chemistry, University of Michigan, Ann Arbor, MI, 48109, USA
SOURCE: Biochemical Journal (2000), 345(3), 673-680
CODEN: BIJOAK; ISSN: 0264-6021
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 83 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 2001008251 EMBASE
TITLE: Inhibition of growth-factor-induced phosphorylation and activation of protein **kinase** B/Akt by atypical protein **kinase** C in **breast** cancer cells.

AUTHOR: Mao M.; Fang X.; Lu Y.; LaPushin R.; Bast R.C. Jr.; Mills G.B.
CORPORATE SOURCE: G.B. Mills, Department of Molecular Therapeutics, Box 317, Univ. TX M. D. Anderson Cancer Ctr., 1515 Holcombe Boulevard, Houston, TX 77030, United States. gmills@notes.mdacc.tmc.edu
SOURCE: Biochemical Journal, (1 Dec 2000) 352/2 (475-482). Refs: 45
ISSN: 0264-6021 CODEN: BIJOAK
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 016 Cancer
029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 84 OF 126 MEDLINE on STN DUPLICATE 13
ACCESSION NUMBER: 2001092126 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11023825
TITLE: DNA repair protein O6-alkylguanine-DNA alkyltransferase is phosphorylated by two distinct and novel protein **kinases** in **human brain** tumour cells.
AUTHOR: Mullapudi S R; Ali-Osman F; Shou J; Srivenugopal K S
CORPORATE SOURCE: Section of Molecular Therapeutics, Department of Neurosurgery, Box 169, The University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030, USA.
CONTRACT NUMBER: CA 74321 (NCI)
SOURCE: Biochemical journal, (2000 Oct 15) 351 Pt 2 393-402. Journal code: 2984726R. ISSN: 0264-6021.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200101
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20020420
Entered Medline: 20010125

L16 ANSWER 85 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2000:352215 SCISEARCH
THE GENUINE ARTICLE: 309WT
TITLE: The CB1 cannabinoid receptor is coupled to the activation of protein **kinase** B/Akt
AUTHOR: delPulgar T; Velasco G; Guzman M (Reprint)
CORPORATE SOURCE: UNIV COMPLUTENSE, SCH BIOL, DEPT BIOCHEM & MOL BIOL 1, E-28040 MADRID, SPAIN (Reprint); UNIV COMPLUTENSE, SCH BIOL, DEPT BIOCHEM & MOL BIOL 1, E-28040 MADRID, SPAIN
COUNTRY OF AUTHOR: SPAIN
SOURCE: BIOCHEMICAL JOURNAL, (15 APR 2000) Vol. 347, Part 2, pp. 369-373.
Publisher: PORTLAND PRESS, 59 PORTLAND PLACE, LONDON W1N 3AJ, ENGLAND.
ISSN: 0264-6021.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 38
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 86 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2000:176895 BIOSIS
DOCUMENT NUMBER: PREV200000176895

TITLE: Polo-like **kinase1**, a new target for antisense tumor therapy.
AUTHOR(S): Elez, Robert [Reprint author]; Piiper, Albrecht [Reprint author]; Giannini, Claudio D. [Reprint author]; Brendel, Martin; Zeuzem, Stefan [Reprint author]
CORPORATE SOURCE: Department of Medicine II, J. W. Goethe-Universitaet, Theodor-Stern-Kai 7, Haus 75, 60590, Frankfurt, Germany
SOURCE: Biochemical and Biophysical Research Communications, (March 16, 2000) Vol. 269, No. 2, pp. 352-356. print.
CODEN: BBRCA9. ISSN: 0006-291X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 3 May 2000
Last Updated on STN: 4 Jan 2002

L16 ANSWER 87 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2000:524754 BIOSIS
DOCUMENT NUMBER: PREV200000524754
TITLE: IGF-I-induced activation of Kv1.X channels in embryonic **kidney** cells in mediated by the **serine/threonine kinase** SGK1.
AUTHOR(S): Huber, S. [Reprint author]; Gamper, N. [Reprint author]; Fillon, S. [Reprint author]; Friedrich, B. [Reprint author]; Klingel, K.; Cohen, P.; Lang, F. [Reprint author]
CORPORATE SOURCE: Department of Physiology, University of Tuebingen, Tuebingen, Germany
SOURCE: Kidney and Blood Pressure Research, (2000) Vol. 23, No. 3-5, pp. 216-217. print.
Meeting Info.: Congress of Nephrology 2000. Vienna, Austria. September 02-05, 2000. Gesellschaft fuer Nephrologie.
ISSN: 1420-4096.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 6 Dec 2000
Last Updated on STN: 11 Jan 2002

L16 ANSWER 88 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:393031 HCAPLUS
DOCUMENT NUMBER: 131:40587
TITLE: **Cloning** and **expression** of CSAID binding protein CSBPβ cDNA and its potential use in drug screening and genetic diagnosis
INVENTOR(S): McDonnel, Peter Colon; Young, Peter Ronald
PATENT ASSIGNEE(S): SmithKline Beecham Corporation, USA
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 922762	A1	19990616	EP 1997-309793	19971204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11196873	A2	19990727	JP 1997-369757	19971209

PRIORITY APPLN. INFO.: EP 1997-309793 A 19971204
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 89 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:315403 HCAPLUS
DOCUMENT NUMBER: 131:99243
TITLE: Characterization of a novel type of **serine/threonine kinase** that specifically phosphorylates the **human** Goodpasture antigen
AUTHOR(S): Raya, Angel; Revert, Fernando; Navarro, Samuel; Saus, Juan
CORPORATE SOURCE: Fundacion Valenciana de Investigaciones Biomedicas, Instituto de Investigaciones Citologicas, Valencia, 46010, Spain
SOURCE: Journal of Biological Chemistry (1999), 274(18), 12642-12649
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 90 OF 126 MEDLINE on STN DUPLICATE 14
ACCESSION NUMBER: 2000090244 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10626818
TITLE: The NH2 terminus of galectin-3 governs cellular compartmentalization and functions in cancer cells.
AUTHOR: Gong H C; Honjo Y; Nangia-Makker P; Hogan V; Mazurak N; Bresalier R S; Raz A
CORPORATE SOURCE: Metastasis Research Program, Karmanos Cancer Institute, Detroit, Michigan 48201, USA.
CONTRACT NUMBER: CA46120 (NCI)
CA69480 (NCI)
SOURCE: Cancer research, (1999 Dec 15) 59 (24) 6239-45.
Journal code: 2984705R. ISSN: 0008-5472.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200001
ENTRY DATE: Entered STN: 20000204
Last Updated on STN: 20000204
Entered Medline: 20000124

L16 ANSWER 91 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1999:288736 BIOSIS
DOCUMENT NUMBER: PREV199900288736
TITLE: DNA-PK, the DNA-activated protein **kinase**, is differentially **expressed** in normal and malignant **human** tissues.
AUTHOR(S): Moll, Ute; Lau, Raymond; Sypes, Michael A.; Gupta, Malini M.; Anderson, Carl W. [Reprint author]
CORPORATE SOURCE: Biology Department, Brookhaven National Laboratory, 50 Bell Avenue, Upton, NY, 11973, USA
SOURCE: Oncogene, (May 20, 1999) Vol. 18, No. 20, pp. 3114-3126. print.
CODEN: ONCNES. ISSN: 0950-9232.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 5 Aug 1999
Last Updated on STN: 30 Sep 1999

L16 ANSWER 92 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1999:166595 BIOSIS
DOCUMENT NUMBER: PREV199900166595
TITLE: All-trans-retinoic acid inhibits Jun N-terminal

kinase by increasing dual-specificity phosphatase activity.

AUTHOR(S): Lee, Ho-Young; Sueoka, Naoko; Hong, Waun-Ki; Mangelsdorf, David J.; Claret, Francois X.; Kurie, Jonathan M. [Reprint author]

CORPORATE SOURCE: Department Thoracic/Head Neck Medical Oncology, M. D. Anderson Cancer Center, Box 80, 1515 Holcombe Boulevard, Houston, TX 77030, USA

SOURCE: Molecular and Cellular Biology, (March, 1999) Vol. 19, No. 3, pp. 1973-1980. print.
CODEN: MCEBD4. ISSN: 0270-7306.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 19 Apr 1999
Last Updated on STN: 19 Apr 1999

L16 ANSWER 93 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 1999:726443 SCISEARCH

THE GENUINE ARTICLE: 237GV

TITLE: Role of MAP **kinase** pathways in mediating IL-6 production in **human** primary mesangial and proximal tubular cells

AUTHOR: Leonard M; Ryan M P (Reprint); Watson A J; Schramek H; Healy E

CORPORATE SOURCE: NATL UNIV IRELAND UNIV COLL DUBLIN, DEPT PHARMACOL, DUBLIN 4, IRELAND (Reprint); NATL UNIV IRELAND UNIV COLL DUBLIN, DEPT PHARMACOL, DUBLIN 4, IRELAND; ST VINCENTS HOSP, DEPT NEPHROL, DUBLIN 4, IRELAND; INNSBRUCK UNIV, DEPT PHYSIOL, A-6020 INNSBRUCK, AUSTRIA

COUNTRY OF AUTHOR: IRELAND; AUSTRIA

SOURCE: KIDNEY INTERNATIONAL, (OCT 1999) Vol. 56, No. 4, pp. 1366-1377.
Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148.
ISSN: 0085-2538.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE; CLIN

LANGUAGE: English

REFERENCE COUNT: 59

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 94 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:568670 HCAPLUS

DOCUMENT NUMBER: 129:185108

TITLE: **Cloning** and cDNA sequence of a **human** drug-binding protein p38 MAP **kinase** isoform

INVENTOR(S): Kumar, Sanjay

PATENT ASSIGNEE(S): Smithkline Beecham Corp., USA

SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 859054	A1	19980819	EP 1997-309437	19971121
EP 859054	B1	20010530		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6376214	B1	20020423	US 1997-802191	19970218
CA 2215920	AA	19980818	CA 1997-2215920	19971118
JP 10243789	A2	19980914	JP 1998-35982	19980218

US 6350856 B1 20020226 US 1998-47288 19980324
PRIORITY APPLN. INFO.: US 1997-802191 A 19970218
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 95 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:747855 HCAPLUS
DOCUMENT NUMBER: 130:109082
TITLE: Acceleration of lpr lymphoproliferative and autoimmune disease by transgenic protein **kinase** CK2α
AUTHOR(S): Rifkin, Ian R.; Channavajhala, Padma L.; Kiefer, Heather L. B.; Carmack, Adrienne J.; Landesman-Bollag, Esther; Beaudette, Britte C.; Jersky, Brian; Salant, David J.; Ju, Shyr-Te; Marshak-Rothstein, Ann; Seldin, David C.
CORPORATE SOURCE: Department of Medicine, Medical Center, Boston University, Boston, MA, 02118, USA
SOURCE: Journal of Immunology (1998), 161(10), 5164-5170
CODEN: JOIMA3; ISSN: 0022-1767
PUBLISHER: American Association of Immunologists
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 96 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 1998:189052 SCISEARCH
THE GENUINE ARTICLE: YZ253
TITLE: Suppression of nitric oxide formation by tyrosine **kinase** inhibitors in murine N9 microglia
AUTHOR: Lockhart B P (Reprint); Cressey K C; Lepagnol J M
CORPORATE SOURCE: SERVIER LABS, INST RECH SERVIER, DIV CEREBRAL PATHOL, CROISSY SUR SEINE, FRANCE (Reprint)
COUNTRY OF AUTHOR: FRANCE
SOURCE: BRITISH JOURNAL OF PHARMACOLOGY, (MAR 1998) Vol. 123, No. 5, pp. 879-889.
Publisher: STOCKTON PRESS, HOUNDMILLS, BASINGSTOKE, HAMPSHIRE, ENGLAND RG21 6XS.
ISSN: 0007-1188.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 54
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 97 OF 126 MEDLINE on STN DUPLICATE 15
ACCESSION NUMBER: 1998174916 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9513729
TITLE: Nm23 and tumour metastasis: basic and translational advances.
AUTHOR: Freije J M; MacDonald N J; Steeg P S
CORPORATE SOURCE: Women's Cancers Section, National Cancer Institute, Bethesda, MD 20892, USA.
SOURCE: Biochemical Society symposium, (1998) 63 261-71. Ref: 75
Journal code: 7506896. ISSN: 0067-8694.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199804
ENTRY DATE: Entered STN: 19980430

Last Updated on STN: 19980430
Entered Medline: 19980423

L16 ANSWER 98 OF 126 MEDLINE on STN
ACCESSION NUMBER: 1998292118 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9630166
TITLE: **Kinase** inhibitors abrogate IFN-gamma-induced class II transactivator and class II MHC gene **expression** in astroglioma cell lines.
AUTHOR: Van Wagoner N J; O'Keefe G M; Benveniste E N
CORPORATE SOURCE: Department of Cell Biology, University of Alabama at Birmingham, 35294-0005, USA.
CONTRACT NUMBER: 5-T32 GM08111 (NIGMS)
MH-55795 (NIMH)
NS-36765 (NINDS)
+
SOURCE: Journal of neuroimmunology, (1998 May 15) 85 (2) 174-85.
Journal code: 8109498. ISSN: 0165-5728.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199806
ENTRY DATE: Entered STN: 19980708
Last Updated on STN: 19980708
Entered Medline: 19980625

L16 ANSWER 99 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 1998:465751 SCISEARCH
THE GENUINE ARTICLE: ZT906
TITLE: Protein-tyrosine **kinase** and protein-**serine/threonine kinase** **expression** in **human** gastric cancer cell lines
AUTHOR: Lin J S; Lu C W; Huang C J; Wu P F; Robinson D; Kung H J; Chi C W; Wu C W; Yang W K; WhangPeng J J K; Lin W C (Reprint)
CORPORATE SOURCE: ACAD SINICA, INST BIOMED SCI, TAIPEI 115, TAIWAN (Reprint); ACAD SINICA, INST BIOMED SCI, TAIPEI 115, TAIWAN; NATL HLTH RES INST, CTR CLIN CANC, TAIPEI, TAIWAN; ACAD SINICA, INST BIOL CHEM, TAIPEI, TAIWAN; CASE WESTERN RESERVE UNIV, SCH MED, DEPT MOL BIOL & MICROBIOL, CLEVELAND, OH; VET GEN HOSP, DEPT SURG, TAIPEI 11217, TAIWAN; VET GEN HOSP, DEPT MED RES, TAIPEI 11217, TAIWAN; NATL YANG MING UNIV, SCH MED, TAIPEI 112, TAIWAN
COUNTRY OF AUTHOR: TAIWAN; USA
SOURCE: JOURNAL OF BIOMEDICAL SCIENCE, (MAR-APR 1998) Vol. 5, No. 2, pp. 101-110.
Publisher: KARGER, ALLSCHWILERSTRASSE 10, CH-4009 BASEL, SWITZERLAND.
ISSN: 1021-7770.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 29
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 100 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1998:42498 BIOSIS
DOCUMENT NUMBER: PREV199800042498
TITLE: Smad8 mediates the signaling of the receptor **serine kinase**.
AUTHOR(S): Chen, Yan; Bhushan, Anil; Vale, Wylie [Reprint author]
CORPORATE SOURCE: Clayton Foundation Lab. Peptide Biol., Salk Inst.

Biological Studies, 10010 North Torrey Pines Rd., La Jolla, CA 92037, USA
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (Nov. 25, 1997) Vol. 94, No. 24, pp. 12938-12943. print.
CODEN: PNASA6. ISSN: 0027-8424.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 27 Jan 1998
Last Updated on STN: 27 Jan 1998

L16 ANSWER 101 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 16
ACCESSION NUMBER: 97063178 EMBASE
DOCUMENT NUMBER: 1997063178
TITLE: Characterization of protein **kinase** A and protein **kinase** C phosphorylation of the N-methyl-D-aspartate receptor NR1 subunit using phosphorylation site-specific antibodies.
AUTHOR: Tingley W.G.; Ehlers M.D.; Kameyama K.; Doherty C.; Ptak J.B.; Riley C.T.; Huganir R.L.
CORPORATE SOURCE: R.L. Huganir, Dept. of Neuroscience, Howard Hughes Medical Institute, Johns Hopkins Univ. Sch. of Med., 725 North Wolfe St., Baltimore, MD 21205-2185, United States. rick.huganir@qmail.bs.jhu.edu
SOURCE: Journal of Biological Chemistry, (1997) 272/8 (5157-5166). Refs: 49
ISSN: 0021-9258 CODEN: JBCHA3
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 102 OF 126 MEDLINE on STN
ACCESSION NUMBER: 1998055618 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9395240
TITLE: Potentiation of apoptosis by low dose stress stimuli in cells **expressing** activated MEK **kinase** 1.
AUTHOR: Widmann C; Johnson N L; Gardner A M; Smith R J; Johnson G L
CORPORATE SOURCE: Division of Basic Sciences, National Jewish Center for Immunology and Respiratory Medicine, Denver, Colorado 80206, USA.
CONTRACT NUMBER: CA 58157 (NCI)
DK 37871 (NIDDK)
DK 48845 (NIDDK)
+
SOURCE: Oncogene, (1997 Nov 13) 15 (20) 2439-47.
Journal code: 8711562. ISSN: 0950-9232.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199712
ENTRY DATE: Entered STN: 19980116
Last Updated on STN: 20020420
Entered Medline: 19971229

L16 ANSWER 103 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:365459 HCAPLUS
DOCUMENT NUMBER: 127:79485
TITLE: A putative **serine/threonine** **kinase** encoding gene BTAK on chromosome 20q13

is amplified and overexpressed in **human** **breast** cancer cell lines
AUTHOR(S): Sen, Subrata; Zhou, Hongyi; White, R. Allen
CORPORATE SOURCE: Section of Experimental Laboratory Medicine, Division of Laboratory Medicine, The University of Texas M.D. Anderson Cancer Center, Houston, TX, 77030-4095, USA
SOURCE: Oncogene (1997), 14(18), 2195-2200
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER: Stockton
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 104 OF 126 MEDLINE on STN DUPLICATE 17
ACCESSION NUMBER: 97236686 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9121351
TITLE: Muscarinic receptors involved in hippocampal plasticity.
AUTHOR: Segal M; Auerbach J M
CORPORATE SOURCE: Department of Neurobiology, The Weizmann Institute, Rehovot, Israel.
SOURCE: Life sciences, (1997) 60 (13-14) 1085-91. Ref: 37
Journal code: 0375521. ISSN: 0024-3205.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199704
ENTRY DATE: Entered STN: 19970506
Last Updated on STN: 19970506
Entered Medline: 19970423

L16 ANSWER 105 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
ACCESSION NUMBER: 1997-01339 BIOTECHDS
TITLE: New mitogen-activated protein-**kinase-kinase** and related DNA;
gene **cloning** and **expression** for use as an antiinflammatory, immunosuppressive, etc., and use of DNA probe in diagnosis of heart or **kidney** disease, inflammation, autoimmune disease, etc.
AUTHOR: Davis R J; Gupta S; Raingeaud J; Derijard B
PATENT ASSIGNEE: Davis R J; Gupta S; Raingeaud J; Derijard B
LOCATION: Princeton, MA, USA; Worcester, MA, USA; Bazoges-en-Pareds, France; Marseilles, France.
PATENT INFO: WO 9636642 21 Nov 1996
APPLICATION INFO: WO 1996-US1078 26 Jan 1996
PRIORITY INFO: US 1995-530950 19 Sep 1995; US 1995-446083 19 May 1995
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 1997-012035 [01]

L16 ANSWER 106 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:410596 HCAPLUS
DOCUMENT NUMBER: 125:108869
TITLE: ALK-7 (activin like **kinase**), a **serine threonine kinase** receptor, **human** cDNA sequence, and antibody or nucleic acid in diagnosis and gene therapy for neurodegenerative disease or injury
INVENTOR(S): Ibanez, Carlos F.; Ryden, Mikael; Joernvall, Henrik
PATENT ASSIGNEE(S): Swed.
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9612805	A1	19960502	WO 1995-IB899	19951020
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5614609	A	19970325	US 1994-341916	19941115
AU 9536180	A1	19960515	AU 1995-36180	19951020
AU 699024	B2	19981119		
EP 788543	A1	19970813	EP 1995-933575	19951020
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10510143	T2	19981006	JP 1995-513759	19951020

PRIORITY APPLN. INFO.: US 1994-325956 A 19941020
US 1994-341916 A 19941115
WO 1995-IB899 W 19951020

L16 ANSWER 107 OF 126 MEDLINE on STN DUPLICATE 18
ACCESSION NUMBER: 96411712 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8810265
TITLE: Site-directed mutagenesis of nm23-H1. Mutation of proline 96 or **serine** 120 abrogates its motility inhibitory activity upon transfection into **human breast carcinoma** cells.
AUTHOR: MacDonald N J; Freije J M; Stracke M L; Manrow R E; Steeg P S
CORPORATE SOURCE: Women's Cancers Section, Laboratory of Pathology, Division of Clinical Sciences, NCI, National Institutes of Health, Bethesda, Maryland 20892, USA.
SOURCE: Journal of biological chemistry, (1996 Oct 11) 271 (41) 25107-16.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-X17620
ENTRY MONTH: 199611
ENTRY DATE: Entered STN: 19961219
Last Updated on STN: 19961219
Entered Medline: 19961119

L16 ANSWER 108 OF 126 MEDLINE on STN
ACCESSION NUMBER: 96293484 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8692953
TITLE: Selection for genes encoding secreted proteins and receptors.
AUTHOR: Klein R D; Gu Q; Goddard A; Rosenthal A
CORPORATE SOURCE: Department of Neuroscience, Genentech Inc., South San Francisco, CA 94080-4990, USA.
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1996 Jul 9) 93 (14) 7108-13.
Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199608
ENTRY DATE: Entered STN: 19960911
Last Updated on STN: 19960911
Entered Medline: 19960829

L16 ANSWER 109 OF 126 MEDLINE on STN
ACCESSION NUMBER: 96210647 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8633070
TITLE: ERK6, a mitogen-activated protein **kinase** involved in C2C12 myoblast differentiation.
AUTHOR: Lechner C; Zahalka M A; Giot J F; Moller N P; Ullrich A
CORPORATE SOURCE: Department of Molecular Biology, Max-Planck-Institut fur Biochemie, Martinsried, Germany.
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1996 Apr 30) 93 (9) 4355-9. Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-X79483
ENTRY MONTH: 199607
ENTRY DATE: Entered STN: 19960715
Last Updated on STN: 19980206
Entered Medline: 19960701

L16 ANSWER 110 OF 126 MEDLINE on STN DUPLICATE 19
ACCESSION NUMBER: 96182089 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8622688
TITLE: 3pK, a new mitogen-activated protein **kinase** -activated protein **kinase** located in the small cell lung cancer tumor suppressor gene region.
COMMENT: Erratum in: Mol Cell Biol 1996 Apr;16(4):1880
AUTHOR: Sithanandam G; Latif F; Duh F M; Bernal R; Smola U; Li H; Kuzmin I; Wixler V; Geil L; Shrestha S
CORPORATE SOURCE: Biological Carcinogenesis and Development Program, PRI/DynCorp, National Cancer Institute, Frederick Cancer Research and Development Center, Maryland 21702-1201, USA.
CONTRACT NUMBER: 5 RO1 CA14054-15 (NCI)
CA58220 (NCI)
SOURCE: Molecular and cellular biology, (1996 Mar) 16 (3) 868-76. Journal code: 8109087. ISSN: 0270-7306.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-U09578
ENTRY MONTH: 199606
ENTRY DATE: Entered STN: 19960627
Last Updated on STN: 20020420
Entered Medline: 19960618

L16 ANSWER 111 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1996:158720 BIOSIS
DOCUMENT NUMBER: PREV199698730855
TITLE: Genes related to growth and invasiveness are repressed by sodium butyrate in ovarian **carcinoma** cells.
AUTHOR(S): Krupitza, G. [Reprint author]; Grill, S.; Harant, H.; Hulla, W.; Szekeres, T.; Huber, H.; Dittrich, C.
CORPORATE SOURCE: Inst. Clin. Pathol., Univ. Vienna, Wahringer Gurtel 18-20, A-1090 Vienna, Austria
SOURCE: British Journal of Cancer, (1996) Vol. 73, No. 4, pp. 433-438.
CODEN: BJCAAI. ISSN: 0007-0920.

DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 11 Apr 1996
Last Updated on STN: 10 Jun 1997

L16 ANSWER 112 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:543568 HCAPLUS
DOCUMENT NUMBER: 122:285539
TITLE: A **serine/threonine** protein **kinase** that phosphorylates the N-terminal activation domain of the c-jun protein
INVENTOR(S): Karin, Michael; Davis, Roger; Hibi, Masahiko; Lin, Anning; Derijard, Benoit
PATENT ASSIGNEE(S): University of California, USA; University of Massachusetts
SOURCE: PCT Int. Appl., 142 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9503323	A1	19950202	WO 1994-US8119	19940718
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5534426	A	19960709	US 1993-94533	19930719
US 6514745	B1	20030204	US 1994-220602	19940325
AU 9473380	A1	19950220	AU 1994-73380	19940718
AU 700137	B2	19981224		
EP 726908	A1	19960821	EP 1994-923544	19940718
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09507384	T2	19970729	JP 1995-505262	19940718
JP 2925740	B2	19990728		
CA 2166981	C	20001107	CA 1994-2166981	19940718

PRIORITY APPLN. INFO.: US 1993-94533 A 19930719
US 1994-220602 A 19940325
WO 1994-US8119 W 19940718

L16 ANSWER 113 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:987269 HCAPLUS
DOCUMENT NUMBER: 124:79601
TITLE: A novel **serine/threonine** **kinase** binding the Ras-related RhoA GTPase which translocates the **kinase** to peripheral membranes
AUTHOR(S): Leung, Thomas; Manser, Edward; Tan, Lydia; Lim, Louis
CORPORATE SOURCE: Inst. Molecular Cell Biology, National Univ. Singapore, Kent Ridge, 0511, Singapore
SOURCE: Journal of Biological Chemistry (1995), 270(49), 29051-4
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 114 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:584903 HCAPLUS
DOCUMENT NUMBER: 123:250069

TITLE: A novel **serine kinase** activated by rac1/CDC42Hs-dependent autophosphorylation is related to PAK65 and STE20
AUTHOR(S): Martin, George A.; Bollaq, Gideon; McCormick, Frank; Abo, Arie
CORPORATE SOURCE: Onyx Pharmaceuticals, Richmond, CA, 94806, USA
SOURCE: EMBO Journal (1995), 14(9), 1970-8
CODEN: EMJODG; ISSN: 0261-4189
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 115 OF 126 MEDLINE on STN
ACCESSION NUMBER: 96103550 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7495695
TITLE: Phosphorylation of the **human** estrogen receptor by mitogen-activated protein **kinase** and casein **kinase** II: consequence on DNA binding.
AUTHOR: Arnold S F; Obourn J D; Jaffe H; Notides A C
CORPORATE SOURCE: Department of Environmental Medicine, University of Rochester School of Medicine and Dentistry, NY, USA.
CONTRACT NUMBER: ES 01247 (NIEHS)
HD 06707 (NICHD)
T32ES 07026 (NIEHS)
SOURCE: Journal of steroid biochemistry and molecular biology, (1995 Nov) 55 (2) 163-72.
Journal code: 9015483. ISSN: 0960-0760.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199601
ENTRY DATE: Entered STN: 19960217
Last Updated on STN: 20020420
Entered Medline: 19960118

L16 ANSWER 116 OF 126 MEDLINE on STN DUPLICATE 20
ACCESSION NUMBER: 95127233 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7826642
TITLE: p493F12 **kinase**: a novel MAP **kinase** **expressed** in a subset of neurons in the **human** nervous system.
AUTHOR: Mohit A A; Martin J H; Miller C A
CORPORATE SOURCE: Department of Pathology, University of Southern California, Los Angeles 90033.
CONTRACT NUMBER: 5-R37-MH39145 (NIMH)
AG00093 (NIA)
AG05142 (NIA)
SOURCE: Neuron, (1995 Jan) 14 (1) 67-78.
Journal code: 8809320. ISSN: 0896-6273.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-U07620
ENTRY MONTH: 199502
ENTRY DATE: Entered STN: 19950307
Last Updated on STN: 20000303
Entered Medline: 19950222

L16 ANSWER 117 OF 126 MEDLINE on STN
ACCESSION NUMBER: 94336666 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8058741
TITLE: Genomic structure and **cloned** cDNAs predict that

four variants in the **kinase** domain of **serine/threonine kinase** receptors arise by alternative splicing and poly(A) addition.
AUTHOR: Xu J; Matsuzaki K; McKeehan K; Wang F; Kan M; McKeehan W L
CORPORATE SOURCE: W. Alton Jones Cell Science Center, Inc., Lake Placid, NY 12946.
CONTRACT NUMBER: DK35310 (NIDDK)
DK38369 (NIDDK)
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1994 Aug 16) 91 (17) 7957-61.
Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-L10125; GENBANK-L10126; GENBANK-L31848
ENTRY MONTH: 199409
ENTRY DATE: Entered STN: 19940920
Last Updated on STN: 19970203
Entered Medline: 19940914

L16 ANSWER 118 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 94296437 EMBASE
DOCUMENT NUMBER: 1994296437
TITLE: Interleukin-1 activates a novel protein **kinase** cascade that results in the phosphorylation of Hsp27.
AUTHOR: Freshney N.W.; Rawlinson L.; Guesdon F.; Jones E.; Cowley S.; Hsuan J.; Saklatvala J.
CORPORATE SOURCE: Department of Biochemistry, Tufts University School of Medicine, 136 Harrison Avenue,Boston, MA 02111, United States
SOURCE: Cell, (1994) 78/6 (1039-1049).
ISSN: 0092-8674 CODEN: CELLB5
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 029 Clinical Biochemistry
030 Pharmacology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 119 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:695669 HCAPLUS
DOCUMENT NUMBER: 121:295669
TITLE: Identification and characterization of DBK, a novel putative **serine/threonine** protein **kinase** from **human** endothelial cells
AUTHOR(S): Chu, Wei; Presky, David H.; Danho, Waleed; Swerlick, Robert A.; Burns, Daniel K.
CORPORATE SOURCE: Dep. Inflammation/Autoimmune Diseases, Hoffman-La Roche Inc., Nutely, NJ, USA
SOURCE: European Journal of Biochemistry (1994), 225(2), 695-72
CODEN: EJBCAI; ISSN: 0014-2956
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 120 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 94:736322 SCISEARCH
THE GENUINE ARTICLE: PR654
TITLE: THIOPHOSPHORYLATED SUBSTRATE-ANALOGS ARE POTENT ACTIVE-SITE-DIRECTED INHIBITORS OF PROTEIN-TYROSINE

PHOSPHATASES
AUTHOR: HIRIYANNA K T (Reprint); BAEDKE D; BAEK K H; FORNEY B A; KORDIYAK G; INGEBRITSEN T S
CORPORATE SOURCE: IOWA STATE UNIV SCI & TECHNOL, DEPT ZOOL & GENET, AMES, IA, 50011 (Reprint)
COUNTRY OF AUTHOR: USA
SOURCE: ANALYTICAL BIOCHEMISTRY, (15 NOV 1994) Vol. 223, No. 1, pp. 51-58.
ISSN: 0003-2697.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 33
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 121 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 94044136 EMBASE
DOCUMENT NUMBER: 1994044136
TITLE: The interleukin-1-stimulated protein **kinase** that phosphorylates heat shock protein hsp27 is activated by MAP **kinase**.
AUTHOR: Bird T.A.; Schule H.D.; Delaney P.; De Roos P.; Sleath P.; Dower S.K.; Virca G.D.
CORPORATE SOURCE: Department of Biochemistry, Immunex Corporation, 51 University Street,Seattle, WA 98101, United States
SOURCE: FEBS Letters, (1994) 338/1 (31-36).
ISSN: 0014-5793 CODEN: FEBLAL
COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 029 Clinical Biochemistry
030 Pharmacology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 122 OF 126 MEDLINE on STN DUPLICATE 21
ACCESSION NUMBER: 93388567 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8397199
TITLE: **Expression** of a Ca2+/calmodulin-dependent protein **kinase**, CaM **kinase**-Gr, in **human** T lymphocytes. Regulation of **kinase** activity by T cell receptor signaling.
AUTHOR: Hanissian S H; Frangakis M; Bland M M; Jawahar S; Chatila T A
CORPORATE SOURCE: Division of Immunology, Children's Hospital, Boston, Massachusetts.
SOURCE: Journal of biological chemistry, (1993 Sep 25) 268 (27) 20055-63.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199310
ENTRY DATE: Entered STN: 19931105
Last Updated on STN: 19980206
Entered Medline: 19931020

L16 ANSWER 123 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:205670 HCAPLUS
DOCUMENT NUMBER: 118:205670
TITLE: Interaction of the **human** insulin receptor tyrosine **kinase** from the baculovirus

expression system with protein **kinase** C in a cell-free system
AUTHOR(S): Ahn, Jongcheol; Donner, David B.; Rosen, Ora M.
CORPORATE SOURCE: Mem. Sloan-Kettering Cancer Cent., New York, NY, 10021, USA
SOURCE: Journal of Biological Chemistry (1993), 268(10), 7571-6
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 124 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 22
ACCESSION NUMBER: 93188200 EMBASE
DOCUMENT NUMBER: 1993188200
TITLE: Novel protein **kinases expressed** in **human breast** cancer.
AUTHOR: Cance W.G.; Craven R.J.; Weiner T.M.; Liu E.T.
CORPORATE SOURCE: University of North Carolina, Department of Surgery,Chapel Hill, NC 27599, United States
SOURCE: International Journal of Cancer, (1993) 54/4 (571-577). ISSN: 0020-7136 CODEN: IJCNAW
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 005 General Pathology and Pathological Anatomy
016 Cancer
022 Human Genetics
029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 125 OF 126 MEDLINE on STN DUPLICATE 23
ACCESSION NUMBER: 92021040 MEDLINE
DOCUMENT NUMBER: PubMed ID: 1656468
TITLE: **Human** vitamin D receptor is selectively phosphorylated by protein **kinase** C on **serine** 51, a residue crucial to its trans-activation function.
AUTHOR: Hsieh J C; Jurutka P W; Galligan M A; Terpening C M; Haussler C A; Samuels D S; Shimizu Y; Shimizu N; Haussler M R
CORPORATE SOURCE: Department of Biochemistry, University of Arizona, Tucson 85724.
CONTRACT NUMBER: AR 1578 (NIAMS)
DK 33351 (NIDDK)
GM 24375 (NIGMS)
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1991 Oct 15) 88 (20) 9315-9. Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199111
ENTRY DATE: Entered STN: 19920124
Last Updated on STN: 19920124
Entered Medline: 19911115

L16 ANSWER 126 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1991:355174 BIOSIS
DOCUMENT NUMBER: PREV199141039689; BR41:39689
TITLE: REGULATION OF CELL PROLIFERATION AND STEROID HORMONE RECEPTOR GENE **EXPRESSION** IN **HUMAN BREAST** CANCER CELLS BY PHORBOL ESTERS AND

DIACYLGLYCEROL.
AUTHOR(S): LEE C S L [Reprint author]; ORMANDY C J; MUSGROVE E A; SUTHERLAND R L
CORPORATE SOURCE: GARVAN INST MED RES, ST VINCENT'S HOSP, SYDNEY, NSW 2010, AUST
SOURCE: Proceedings of the American Association for Cancer Research Annual Meeting, (1991) Vol. 32, pp. 210.
Meeting Info.: 82ND ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, HOUSTON, TEXAS, USA, MAY 15-18, 1991. PROC AM ASSOC CANCER RES ANNU MEET.
ISSN: 0197-016X.
DOCUMENT TYPE: Conference; (Meeting)
FILE SEGMENT: BR
LANGUAGE: ENGLISH
ENTRY DATE: Entered STN: 1 Aug 1991
Last Updated on STN: 11 Sep 1991

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=> e ye j/au
E1            1     YE IL O/AU
E2            1     YE IN HAE/AU
E3         1758 --> YE J/AU
E4           13     YE J A/AU
E5          243     YE J B/AU
E6           39     YE J C/AU
E7           21     YE J D/AU
E8           17     YE J F/AU
E9           14     YE J G/AU
E10         360     YE J H/AU
E11         130     YE J J/AU
E12          37     YE J L/AU

=> s e3
L17        1758 "YE J"/AU

=> e yan c/au
E1            1     YAN BUYU/AU
E2            1     YAN BY ZHANQING/AU
E3         1019 --> YAN C/AU
E4            2     YAN C B/AU
E5          123     YAN C C/AU
E6            6     YAN C C S/AU
E7            3     YAN C CHAN/AU
E8           16     YAN C D/AU
E9            1     YAN C D L/AU
E10          19     YAN C F/AU
E11          46     YAN C G/AU
E12         448     YAN C H/AU

=> s e3
L18        1019 "YAN C"/AU

=> e difrancesco v/au
E1            1     DIFRANCESCO U/AU
E2            1     DIFRANCESCO U M/AU
E3           96 --> DIFRANCESCO V/AU
E4           16     DIFRANCESCO VALENTINA/AU
E5            1     DIFRANCESCOL/AU
E6            1     DIFRANCESO D/AU
E7            2     DIFRANCESO L/AU
E8            1     DIFRANCESO R/AU
E9            1     DIFRANCESO ROBIN/AU
E10           1     DIFRANCESSO L/AU
E11           6     DIFRANCIA C/AU
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E12          4     DIFRANCIA CELENE/AU

=> s e3-e4
L19        112 ("DIFRANCESCO V"/AU OR "DIFRANCESCO VALENTINA"/AU)

=> e beasley e m/au
E1           1     BEASLEY E H/AU
E2           6     BEASLEY E L/AU
E3         297 --> BEASLEY E M/AU
E4           7     BEASLEY E O/AU
E5           1     BEASLEY E S G/AU
E6           2     BEASLEY E T/AU
E7           4     BEASLEY E W/AU
E8           2     BEASLEY E W 3RD/AU
E9           2     BEASLEY E W III/AU
E10          1     BEASLEY E W JR/AU
E11          1     BEASLEY EDWARD E/AU
E12          1     BEASLEY EDWARD EVANS/AU

=> s e3
L20        297 "BEASLEY E M"/AU

=> d his

     (FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

     FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
     LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004
L1       1212511 S KINASE?
L2        442433 S HUMAN AND L1
L3        406466 S SERINE OR THREONINE
L4         39005 S L2 AND L3
L5       6588705 S CLON? OR EXPRESS? OR RECOMBINANT
L6         22817 S L4 AND L5
L7       4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN
L8             0 S KIDNEY OT UTERUS
L9       1844028 S KIDNEY OR UTERUS
L10         4280 S L6 AND L7
L11         1410 S L6 AND L9
L12         5270 S L10 OR L11
L13         4661 SS L1 (2W)L3
L14         4661 S L1 (2W)L3
L15          195 S L12 AND L14
L16          126 DUP REM L15 (69 DUPLICATES REMOVED)
                 E YE J/AU
L17         1758 S E3
                 E YAN C/AU
L18         1019 S E3
                 E DIFRANCESCO V/AU
L19          112 S E3-E4
                 E BEASLEY E M/AU
L20          297 S E3

=> s l16 or l17 or l18 or l19 or l20
L21         3154 L16 OR L17 OR L18 OR L19 OR L20

=> s l15 and l21
L22          126 L15 AND L21

=> dup rem l22
PROCESSING COMPLETED FOR L22
L23          126 DUP REM L22 (0 DUPLICATES REMOVED)

=> s "stk"
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L24       1665 "STK"

=> s l23 and l24
L25          0 L23 AND L24

=> s l1(a)l3
L26      41147 L1(A) L3

=> s human (a)l26
L27         25 HUMAN (A) L26

=> s l22 and l27
L28          1 L22 AND L27

=> d all

L28  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2002:779935  HCAPLUS
DN   137:258603
ED   Entered STN:  14 Oct 2002
TI   Human serine kinase receptor-like protein,
     protein and cDNA sequences, recombinant production and
     therapeutic uses
IN   Mao, Yumin; Xie, Yi
PA   Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China
SO   Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.
     CODEN: CNXXEV
DT   Patent
LA   Chinese
IC   ICM  C07K014-435
     ICS  C07K014-00; C07K016-18; C07K016-00; C07H021-00; C12N015-10;
          C12N015-11; C12N015-12; C12N015-63
CC   3-3 (Biochemical Genetics)
     Section cross-reference(s): 1, 7, 13
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   CN 1331241         A    20020116       CN 2000-116976   20000630
     WO 2002012486      A1   20020214       WO 2001-CN1071   20010629
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO,
             CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
             RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 2002014912      A5   20020218       AU 2002-14912    20010629
PRAI CN 2000-116976     A    20000630
     WO 2001-CN1071     W    20010629
AB   The invention relates to a human serine kinase
     receptor-like protein, designated as serine kinase
     receptor 10.34.  The open reading frame of the cDNA encodes a protein with
     94 amino acids, and an estimated mol. weight of 10 kilodalton based on
SDS-PAGE.
     The invention provides the use of polypeptide and polynucleotide in a
     method for treatment of various kinds of diseases, such as cancer, blood
     disease, HIV infection, immune diseases, growth disease, and inflammation.
     The invention also relates to methods, expression vectors and
     host cells for recombinant production of said serine
     kinase receptor 10.34.  The invention also relates to agonist and
     antagonist of said serine kinase receptor 10.34 and
     uses in therapy.  The invention found that the expression
```

profile of said **serine kinase** receptor 10.34 in some animal cell lines and tissues was similar to that of **human serine kinase** receptor SKR1.

ST sequence cDNA **serine kinase** receptor like protein **human**; therapy diagnosis **serine kinase** receptor like protein **human**

IT Susceptibility (genetic)
(diagnosis of; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Immunity
(disorder, treatment of; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT **Brain**
(fetal, **serine kinase** receptor-like protein **cloned** from; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Diagnosis
(genetic, of susceptibility and mutation; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT DNA microarray technology
Nucleic acid amplification (method)
Nucleic acid hybridization
(**human serine kinase** receptor-like protein, cDNA sequence and uses in nucleic acid hybridization and amplification)

IT Primers (nucleic acid)
Probes (nucleic acid)
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(**human serine kinase** receptor-like protein, cDNA sequence and uses in nucleic acid hybridization and amplification)

IT cDNA sequences
(**human serine kinase** receptor-like protein, cDNA sequence, **recombinant** production and therapeutic uses)

IT Anti-AIDS agents
Anti-inflammatory agents
Antitumor agents
Drug screening
Human
Molecular **cloning**
Plasmid vectors
Viral vectors
(**human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Antisense oligonucleotides
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Protein sequences
(**human serine kinase** receptor-like

protein, protein sequence, **recombinant** production and therapeutic uses)

IT Diagnosis
(mol., for disease related to aberrant **expression** or activity of **serine kinase** receptor-like protein; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein **serine/threonine kinase**-like; **human serine kinase** receptor-like protein, protein sequence, **recombinant** production and therapeutic uses)

IT AIDS (disease)
Blood, disease
Inflammation
Neoplasm
(treatment of; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT 340700-49-4, Receptor **serine/threonine** protein **kinase**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(-like; **human serine kinase** receptor-like protein, protein sequence, **recombinant** production and therapeutic uses)

IT 461743-18-0P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; **human serine kinase** receptor-like protein, cDNA sequence, **recombinant** production and therapeutic uses)

IT 461743-17-9 461743-19-1
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; **human serine kinase** receptor-like protein, cDNA sequence, **recombinant** production and therapeutic uses)

IT 461749-18-8 461749-19-9 461749-20-2 461749-21-3 461749-22-4 461749-23-5
RL: PRP (Properties)
(unclaimed nucleotide sequence; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT 461659-38-1
RL: PRP (Properties)
(unclaimed sequence; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

=> d his

(FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004

L1 1212511 S KINASE?
L2 442433 S HUMAN AND L1
L3 406466 S SERINE OR THREONINE
L4 39005 S L2 AND L3

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L5       6588705 S CLON? OR EXPRESS? OR RECOMBINANT
L6         22817 S L4 AND L5
L7       4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN
L8             0 S KIDNEY OT UTERUS
L9       1844028 S KIDNEY OR UTERUS
L10         4280 S L6 AND L7
L11         1410 S L6 AND L9
L12         5270 S L10 OR L11
L13         4661 SS L1 (2W)L3
L14         4661 S L1 (2W)L3
L15          195 S L12 AND L14
L16          126 DUP REM L15 (69 DUPLICATES REMOVED)
                 E YE J/AU
L17         1758 S E3
                 E YAN C/AU
L18         1019 S E3
                 E DIFRANCESCO V/AU
L19          112 S E3-E4
                 E BEASLEY E M/AU
L20          297 S E3
L21         3154 S L16 OR L17 OR L18 OR L19 OR L20
L22          126 S L15 AND L21
L23          126 DUP REM L22 (0 DUPLICATES REMOVED)
L24         1665 S "STK"
L25            0 S L23 AND L24
L26        41147 S L1(A)L3
L27           25 S HUMAN (A)L26
L28            1 S L22 AND L27

=> d l27 1-25 ibib ab

L27  ANSWER 1 OF 25  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER:    1991:407426  BIOSIS
DOCUMENT NUMBER:     PREV199192074391; BA92:74391
TITLE:               PHOSPHORYLATION OF THE INSULIN RECEPTOR BY A CASEIN KINASE
                     I-LIKE ENZYME.
AUTHOR(S):           RAPUANO M [Reprint author]; ROSEN O M
CORPORATE SOURCE:    18 HILLSIDE AVE, NEWTON, NJ 07860, USA
SOURCE:              Journal of Biological Chemistry, (1991) Vol. 266, No. 20,
                     pp. 12902-12907.
                     CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE:       Article
FILE SEGMENT:        BA
LANGUAGE:            ENGLISH
ENTRY DATE:          Entered STN: 11 Sep 1991
                     Last Updated on STN: 11 Sep 1991
AB   A serine protein kinase that phosphorylates the β-subunit of the
     insulin receptor has been partially purified 5,000-fold from HeLa cell
     membranes.  The enzyme has been purifed by ion-exchange and
     hydroxylapatite chromatography and sucrose gradient centrifugation; it has
     an apparent molecular weight of 36,000-43,000 daltons.  It exhibits the
     following properties: it catalyzes the phosphorylation of the
     autophosphorylated insulin receptor more efficiently than the
     nonautophosphosphorylated insulin receptor, it decreases insulin receptor
     phosphorylation of tubulin but has no effect on insulin receptor
     phosphorylation of microtubule-associated proteins or reduced and
     carboxyamidomethylated lysozyme. the enzyme also phosphorylates casein and
     ribosomal protein S6 and shares many properties with casein kinase I:
     similar molecular weight, utilization of ATP but not GTP as phosphoryl
     donor, and sensitivity to inhibition by heparin.  Based on several
     criteria the reeptors serine kinase is neither protein kinase C nor the
     cAMP-dependent protein kinase.

L27   ANSWER 2 OF 25  BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
```

ACCESSION NUMBER: 2002-09615 BIOTECHDS
TITLE: **Human serine kinase** receptor 10.34 and encoding polynucleotide, used in diagnosis and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and inflammation;
plasmid and virus vector-mediated recombinant protein gene transfer and expression in host cell, DNA microarray, DNA chip, antisense and antibody for cancer and HIV virus infection diagnosis and genetherapy
AUTHOR: MAO Y; XIE Y
PATENT ASSIGNEE: SHANGHAI BIOWINDOW GENE DEV INC
PATENT INFO: WO 2002012486 14 Feb 2002
APPLICATION INFO: WO 2000-CN1071 30 Jun 2000
PRIORITY INFO: CN 2000-116976 30 Jun 2000
DOCUMENT TYPE: Patent
LANGUAGE: German
OTHER SOURCE: WPI: 2002-164859 [21]

AB DERWENT ABSTRACT:
NOVELTY - An isolated polypeptide (I) of **Human serine kinase** receptor 10.34 containing a 94 residue amino acid sequence (S1), fully defined in the specification, or its fragment, analog or derivative, is new. Detailed Description

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) an isolated polynucleotide (II): (a) encoding (S1), or its fragment, analog or derivative; (b) complementary to (a); or (c) not less than 70 % homologous to (a) or (b); (2) a recombinant vector (III) containing an exogenous polynucleotide constructed from (II) and a plasmid, virus vector-expressing vector;(3) a genetically-modified host cell (IV) comprising (II) or (III); (4) producing (I) by culturing (IV) before isolating the product; (5) an antibody that specifically binds (I); (6) mimics or regulators of (I) activity or expression, preferably compounds that can mimic, promote, antagonize or inhibit **Human serine kinase** receptor 10.34; (7) using the compounds of (6) for regulating (I) in vivo or in vitro; (8) detecting diseases relating to the novel polypeptide or disease susceptibility, by measuring the expression dose of (I), determining (I) activity, or detecting (I) expression dose caused by the polynucleotide that has abnormal activity due to a (II) mutation; (9) using (I) for screening mimics, agonists, antagonists or inhibitors, or for use in peptide fingerprinting identification; (10) using (II) as a primer for nucleic acid amplification reaction or as a probe for hybridization reaction, or in producing gene chips or microarrays; and (11) drug compositions for diseases relating to the (I) containing (I), (II), or mimics, agonists, antagonists, or inhibitors and their preparation in safe amounts with pharmaceutically-acceptable carrier, which can be used as diagnostics as well.

BIOTECHNOLOGY - Preferred Polypeptide: (I) is particularly one with not less than 95 % homology to (S1), especially one with an amino-acid sequence of (S1). Preferred Polynucleotide: (II) encodes the polypeptide of (S1), and contains a sequence with bases 965-1249, or bases 1-1907 of a 1907 nucleotide sequence (S2), fully defined in the specification. Preferred Compound: The compound is particularly a polynucleotide of (S2), or an antisense of its fragment.

ACTIVITY - Cytostatic; hemostatic; virucide; immunomodulatory; antiinflammatory. No biological data is given.

MECHANISM OF ACTION - Gene therapy. No biological data is given.

USE - (I) and (II) are used in diagnosis and treatment of malignant tumor, hemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations (claimed).

ADMINISTRATION - Administration is non-oral, particularly by injection. No dosage is suggested.

EXAMPLE - Cloning of **Human serine kinase** receptor 10.34 was performed by using human fetal RNA and then further

studies were carried out.(34 pages)

L27 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:371153 HCAPLUS
DOCUMENT NUMBER: 140:371494
TITLE: Binary prediction tree modeling with many predictors and its uses in clinical and genomic applications
INVENTOR(S): Nevins, Joseph R.; West, Mike; Huang, Andrew T.
PATENT ASSIGNEE(S): Duke University, USA
SOURCE: PCT Int. Appl., 886 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004038376	A2	20040506	WO 2003-US33946	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2004038376	A2	20040506	WO 2003-XA33946	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2004038376	A2	20040506	WO 2003-XB33946	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:		
US 2002-420729P	P	20021024
US 2002-421062P	P	20021025
US 2002-421102P	P	20021025
US 2002-424701P	P	20021108
US 2002-424715P	P	20021108
US 2002-424718P	P	20021108
US 2002-425256P	P	20021112
US 2003-448461P	P	20030221
US 2003-448462P	P	20030221
US 2003-457877P	P	20030327

US 2003-458373P P 20030331
WO 2003-US33946 A 20031024

AB The statistical anal. described and claimed is a predictive statistical tree model that overcomes several problems observed in prior statistical models and regression analyses, while ensuring greater accuracy and predictive capabilities. Although the claimed use of the predictive statistical tree model described herein is directed to the prediction of a disease in individuals, the claimed model can be used for a variety of applications including the prediction of disease states, susceptibility of disease states or any other biol. state of interest, as well as other applicable non-biol. states of interest. This model first screens genes to reduce noise, applies kmeans correlation-based clustering targeting a large number of clusters, and then uses singular value decompns. (SVD) to extract the single dominant factor (principal component) from each cluster. This generates a statistically significant number of cluster-derived singular factors, that are referred to as metagenes, that characterize multiple patterns of expression of the genes across samples. The strategy aims to extract multiple such patterns while reducing dimension and smoothing out gene-specific noise through the aggregation within clusters. Formal predictive anal. then uses these metagenes in a Bayesian classification tree anal. This generates multiple recursive partitions of the sample into subgroups (the 'leaves' of the classification tree), and assocs. Bayesian predictive probabilities of outcomes with each subgroup. Overall predictions for an individual sample are then generated by averaging predictions, with appropriate wts., across many such tree models. The model includes the use of iterative out-of-sample, cross-validation predictions leaving each sample out of the data set one at a time, refitting the model from the remaining samples and using it to predict the hold-out case. This rigorously tests the predictive value of a model and mirrors the real-world prognostic context where prediction of new cases as they arise is the major goal.

L27 ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:777245 HCAPLUS
DOCUMENT NUMBER: 139:287957
TITLE: Regulation of HIV-Tat and NEF by PAK4 kinase and its binding partners and methods of identifying modulators thereof
INVENTOR(S): Melnick, Michael B.; Moritz, Albrecht; Comb, Michael J.
PATENT ASSIGNEE(S): Cell Signaling Technology, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of U.S. Ser. No. 750,457, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003186254	A1	20031002	US 2002-134102	20020429

PRIORITY APPLN. INFO.: US 1999-173939P P 19991230
US 2000-750457 B2 20001228

AB The present invention discloses complexes of cellular signaling proteins that interact in vivo with the HIV-encoded auxiliary proteins Nef and Tat to modulate their activity. This complex includes the novel serine/threonine kinase PAK4 and the novel guanine nucleotide exchange factor Cdc42-GEF, which synergize to stimulate Tat transcriptional activity, and the acetyl-transferase Tip60 which modifies Nef. These cellular partners of the HIV auxiliary proteins represent novel targets for HIV therapeutics. The invention provides isolated DNA and vectors encoding PAK4 and Cdc42-GEF, and methods of producing recombinant forms of these proteins. The invention also provides methods for identifying

compds. that modulate the activity of HIV-Tat, HIV-Nef or Tip60, and methods for modulating the activity of these enzymes.

L27 ANSWER 5 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:356640 HCAPLUS
DOCUMENT NUMBER: 138:380471
TITLE: Genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses
INVENTOR(S): Brissette, William H.; Neote, Kuldeep S.; Zagouras, Panayiotis; Zenke, Martin; Lemke, Britt; Hacker, Christine
PATENT ASSIGNEE(S): Pfizer Products Inc., USA; Max-Delbrueck-Centrum Fuer Molekulare Medizin
SOURCE: PCT Int. Appl., 285 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003038130	A2	20030508	WO 2002-US34888	20021031
WO 2003038130	A3	20040212		
WO 2003038130	C1	20040422		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

WO 2003038130	A2	20030508	WO 2002-XA34888	20021031

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004014064	A1	20040122	US 2002-285366	20021031

PRIORITY APPLN. INFO.:
US 2001-335048P P 20011031
US 2001-335183P P 20011102
WO 2002-US34888 A 20021031

AB The present invention provides mol. targets that regulate erythropoiesis. Groups of genes or their encoded gene products comprise panels of the invention and may be used in therapeutic intervention, therapeutic agent screening, and in diagnostic methods for diseases and/or disorders of erythropoiesis. The panels were discovered using gene expression profiling of erythroid progenitors with Affymetrix HU6800 and HG-U95Av2 chips. Cells from an in vitro growth and differentiation system of SCF-Epo dependent human erythroid progenitors, E-cadherin+/CD36+ progenitors, cord blood, or CD34+ peripheral blood stem cells were analyzed. The HU6800 chip contains probes from 13,000 genes with a potential role in cell growth, proliferation, and differentiation and the

HG-U95Av2 chip contains 12,000 full-length, functionally-characterized genes. This abstract record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.

L27 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:221864 HCAPLUS
DOCUMENT NUMBER: 138:249732
TITLE: Gene expression profiling for identification of disease genes for use in drug screening and therapy
INVENTOR(S): Bristow, Michael R.; Minobe, Wayne A.; Lowes, Brian D.; Perryman, Benjamin M.
PATENT ASSIGNEE(S): The Regents of the University of Colorado, USA
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003023066	A1	20030320	WO 2002-US28808	20020911

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003096782	A1	20030522	US 2002-241368	20020911

PRIORITY APPLN. INFO.: US 2001-318854P P 20010911
AB A method for identifying genes involved in development, progression, and/or maintenance of a disease comprises comparison of gene expression profiles of samples from healthy and diseased subjects and/or from treated and untreated diseased subjects. The methods may be applied to the identification of genes involved in cardiac disease states. Through the identification of new targets, addnl. methods for drug screening and therapy also are provided. Thus, the method was applied to patients exhibiting dilated cardiomyopathy and those with the disease after treatment with β-blockers. One hundred thirty six genes which were up- or down-regulated were identified.
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:779935 HCAPLUS
DOCUMENT NUMBER: 137:258603
TITLE: **Human serine kinase** receptor-like protein, protein and cDNA sequences, recombinant production and therapeutic uses
INVENTOR(S): Mao, Yumin; Xie, Yi
PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1331241	A	20020116	CN 2000-116976	20000630
WO 2002012486	A1	20020214	WO 2001-CN1071	20010629

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2002014912	A5	20020218	AU 2002-14912	20010629

PRIORITY APPLN. INFO.: CN 2000-116976 A 20000630
WO 2001-CN1071 W 20010629

AB The invention relates to a **human serine kinase** receptor-like protein, designated as serine kinase receptor 10.34. The open reading frame of the cDNA encodes a protein with 94 amino acids, and an estimated mol. weight of 10 kilodalton based on SDS-PAGE. The invention provides the use of polypeptide and polynucleotide in a method for treatment of various kinds of diseases, such as cancer, blood disease, HIV infection, immune diseases, growth disease, and inflammation. The invention also relates to methods, expression vectors and host cells for recombinant production of said serine kinase receptor 10.34. The invention also relates to agonist and antagonist of said serine kinase receptor 10.34 and uses in therapy. The invention found that the expression profile of said serine kinase receptor 10.34 in some animal cell lines and tissues was similar to that of **human serine kinase** receptor SKR1.

L27 ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:730430 HCAPLUS
DOCUMENT NUMBER: 137:259334
TITLE: Protein and cDNA sequences of two novel human serine protein kinases expressed in brain and pancreas
INVENTOR(S): Shu, Youmin; Fan, Wufang; Kovacs, Karl F.; Zidanic, Michael; Jay, Gilbert
PATENT ASSIGNEE(S): Origene Technologies, Inc, USA
SOURCE: U.S., 34 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6455292	B1	20020924	US 2001-930181	20010816
US 2003092036	A1	20030515	US 2002-195072	20020715
US 2003096271	A1	20030522	US 2002-195071	20020715
WO 2003016485	A2	20030227	WO 2002-US26129	20020816

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-930181 A1 20010816

AB The present invention provides protein and cDNA sequences of two novel human serine protein kinases (KSE336-1 and KSE336-2) expressed in brain and pancreas. The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clin. medicine, forensic science, pathol., and medicine. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as mol. markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to diseases and conditions, especially relating to brain and pancreas.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:640474 HCAPLUS

DOCUMENT NUMBER: 138:22553

TITLE: Human TPX2 is required for targeting Aurora-A kinase to the spindle

AUTHOR(S): Kufer, Thomas A.; Sillje, Herman H. W.; Korner, Roman; Gruss, Oliver J.; Meraldi, Patrick; Nigg, Erich A.

CORPORATE SOURCE: Department of Cell Biology, Max Planck Institute of Biochemistry, Martinsried, D-82152, Germany

SOURCE: Journal of Cell Biology (2002), 158(4), 617-623
CODEN: JCLBA3; ISSN: 0021-9525

PUBLISHER: Rockefeller University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Aurora-A is a serine-threonine kinase implicated in the assembly and maintenance of the mitotic spindle. Here we show that human Aurora-A binds to TPX2, a prominent component of the spindle apparatus TPX2 was identified by mass spectrometry as a major protein coimmunopptg. specifically with Aurora-A from mitotic HeLa cell exts. Conversely, Aurora-A could be detected in TPX2 immunoppts. This indicates that subpopulations of these two proteins undergo complex formation in vivo. Binding studies demonstrated that the N-terminal of TPX2 can directly interact with the COOH-terminal catalytic domain of Aurora-A. Although kinase activity was not required for this interaction, TPX2 was readily phosphorylated by Aurora-A. Upon siRNA-mediated elimination of TPX2 from cells, the association of Aurora-A with the spindle microtubules was abolished, although its association with spindle poles was unaffected. Conversely, depletion of Aurora-A by siRNA had no detectable influence on the localization of TPX2. We propose that human TPX2 is required for targeting Aurora-A kinase to the spindle apparatus In turn, Aurora-A might regulate the function of TPX2 during spindle assembly.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:575214 HCAPLUS

DOCUMENT NUMBER: 137:136129

TITLE: Human protein kinase and the cDNA and genomic DNA encoding the protein kinase

INVENTOR(S): Beasley, Ellen M.; Ye, Jane; Yan, Chunhua; Ketchum, Karen A.; Di Francesco, Valentina

PATENT ASSIGNEE(S): PE Corporation (NY), USA

SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059288	A2	20020801	WO 2002-US930	20020115
WO 2002059288	A3	20030410		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003022337	A1	20030130	US 2001-819607	20010329
US 6686176	B2	20040203		
EP 1356027	A2	20031029	EP 2002-705765	20020115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004067568	A1	20040408	US 2003-633631	20030805

PRIORITY APPLN. INFO.:
US 2001-263162P P 20010123
US 2001-819607 A 20010329
WO 2002-US930 W 20020115

AB The present invention provides the amino acid sequence a human protein, and encoding gene and cDNA sequences, that shows a particularly high degree of similarity to the the serine/threonine protein kinase EVC gene which is associated with Ellis-van Creveld syndrome and Weyers acrodental dysostosis. Exptl. data indicates expression in humans in prostate, lung, and whole brain. The present invention specifically provides isolated peptide and nucleic acid mols., methods of identifying orthologs and paralogs of the kinase peptides, and methods of identifying modulators of the kinase peptides.

L27 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:784251 HCAPLUS
DOCUMENT NUMBER: 132:19663
TITLE: human Pak4 novel gene encoding a serine/threonine kinase useful as tumor cell inhibitor and active in induction of filopodia and actin cytoskeleton polymerization
INVENTOR(S): Minden, Audrey
PATENT ASSIGNEE(S): The Trustees of Columbia University In the City of New York, USA
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963073	A1	19991209	WO 1999-US11341	19990521
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6013500	A	20000111	US 1998-82737	19980521
AU 9940947	A1	19991220	AU 1999-40947	19990521

US 6667168 B1 20031223 US 2000-718032 20001121
US 2004091992 A1 20040513 US 2003-693367 20031024
PRIORITY APPLN. INFO.: US 1998-82737 A2 19980521
WO 1999-US11341 W 19990521
US 2000-718032 A3 20001121

AB This invention provides an isolated mammalian nucleic acid mol. encoding a PAK4 serine/threonine kinase. This invention provides an isolated nucleic acid mol. encoding a mutant homolog of the mammalian PAK4 serine/threonine kinase whose amino acid sequence is set forth. This invention provides a fusion protein comprising a PAK4 serine/threonine kinase or a fragment thereof and a second peptide. This invention provides a purified mammalian PAK4 serine/threonine kinase. This invention provides a protein comprising substantially the amino acid sequence set forth in Figure 1A. This invention provides a monoclonal antibody directed to an epitope of a PAK4 serine/threonine kinase. This invention provides a method of inhibiting PAK4 function comprising administering a ligand comprising an amino acid domain which binds to a GTP binding protein so as to inhibit binding of the GTP binding protein to PAK4. This invention provides a method of inhibiting PAK4 function comprising administering a ligand which binds to the GTP binding domain of PAK4 so as to inhibit PAK4 binding to a GTP binding protein. This invention provides a method of inhibiting PAK4 serine/threonine kinase function comprising administering a ligand which blocks an ATP binding domain so as to inhibit PAK4 serine/threonine kinase function. This invention provides a method of inhibiting growth of a tumor cell comprising blocking Cdc42Hs by administering a ligand capable of binding to a Cdc42Hs binding site of a PAK4 serine/threonine kinase. PAK4 was shown to interact with activated Cdc42Hs through GBD/CRIB domain and is recruited to the Golgi. PAK4 is involved with the actin cytoskeleton and activation of the JNK pathway. PAK4 induces actin polymerization and induces formation of filopodia. PAK4 is used as a tumor cell inhibitor for cancer or arthritis. Mouse cDNA and protein fragments are also listed..

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:421789 HCAPLUS
DOCUMENT NUMBER: 131:55792
TITLE: Cloning of cDNA for human STE20-like signal transduction serine/threonine kinase
INVENTOR(S): Norris, Tyrell Errick; Moore, William Craig; Silberstein, David Shay
PATENT ASSIGNEE(S): Zeneca Limited, UK
SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932637	A1	19990701	WO 1998-GB3793	19981217
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9916766	A1	19990712	AU 1999-16766	19981217
EP 1040194	A1	20001004	EP 1998-961306	19981217

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

JP 2002516064 T2 20020604 JP 2000-525556 19981217

PRIORITY APPLN. INFO.: GB 1997-26851 A 19971219
WO 1998-GB3793 W 19981217

AB A human signal-transduction kinase polypeptide is described which is expressed at a particularly high level in tissues of the human immune system. A full length cDNA which encodes a Ste20-like signal transduction serine/threonine kinase polypeptide is disclosed as well as the interior structural region and the amino acid residue sequence of the native biol. mol. Methods are provided to identify compds. that modulate the biol. activity of the human Ste20-like signal transduction serine/threonine kinase. Also described are antisense nucleic acid sequences capable of inhibiting expression of the kinase, a pharmaceutical composition containing a compound capable of modulating the the kinase activity, and a diagnostic kit containing antibodies to the kinase or PCR primers derived from the encoding cDNA.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:513247 HCAPLUS

DOCUMENT NUMBER: 129:240625

TITLE: Human ULK1, a novel serine/threonine kinase related to UNC-51 kinase of Caenorhabditis elegans: cDNA cloning, expression, and chromosomal assignment

AUTHOR(S): Kuroyanagi, Hidehito; Yan, Jin; Seki, Naohiko; Yamanouchi, Yasuko; Suzuki, Yo-ichi; Takano, Takako; Muramatsu, Masa-aki; Shirasawa, Takuji

CORPORATE SOURCE: Department of Mol. Genetics, Tokyo Metropolitan Inst. of Gerontology, Tokyo, 173-0015, Japan

SOURCE: Genomics (1998), 51(1), 76-85
CODEN: GNMCEP; ISSN: 0888-7543

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The unc-51 gene, isolated from mutants of Caenorhabditis elegans exhibiting abnormal axonal extension and growth, encodes a novel serine/threonine kinase (K. Ogura, et al., 1994, Genes Dev. 8: 2389-2400). Here we report the mol. cloning and characterization of the human homolog of UNC-51, designated ULK1, for UNC-51 (C. elegans)-like kinase 1. Sequence anal. of the human ULK1 cDNA showed that an open reading frame is composed of 1050 amino acids with a calculated MW of 112.6 kDa and a pI of 8.80. Homol. search anal. showed that ULK1 has 41% overall similarity to UNC-51 and 29% similarity to Apg1p of Saccharomyces cerevisiae. Phylogenetic anal. of ULK1, UNC-51, and Agg1p suggested that they constitute a novel subfamily of serine/threonine kinases. Southern blot analyses suggested that the ULK1 gene spans 30-40 kb in the human genome as a single-copy gene. Zoo blot anal. indicated that ULK1 kinase is conserved among vertebrates including mammals, birds, reptiles, amphibians, and fish. Northern blot anal. revealed that ULK1 is ubiquitously expressed in adult human tissues such as skeletal muscle, heart, pancreas, brain, placenta, liver, kidney, and lung, whereas UNC-51 is specifically detected in the nervous system of C. elegans. Both FISH and RH mapping confirmed the regional localization of ULK1 to human chromosome 12q24.3. (c) 1998 Academic Press.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:310757 HCAPLUS

DOCUMENT NUMBER: 126:288101

TITLE: **Human serine kinase**
PSKH-1 cDNA sequence, ribozymes that cleave PSKH-1

mRNA, and therapeutic uses in treating diseases related to abnormal cell proliferation
INVENTOR(S): Prydz, Hans Peter Blankenborg; Brede, Gaute
PATENT ASSIGNEE(S): Prydz, Hans Peter Blankenborg, Norway; Brede, Gaute
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9711163	A1	19970327	WO 1996-NO220	19960918
W: AU, CA, JP, NO, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2232301	AA	19970327	CA 1996-2232301	19960918
AU 9672301	A1	19970409	AU 1996-72301	19960918
AU 709027	B2	19990819		
EP 862619	A1	19980909	EP 1996-933666	19960918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 5856463	A	19990105	US 1996-715568	19960918
JP 2002515726	T2	20020528	JP 1997-512614	19960918

PRIORITY APPLN. INFO.: NO 1995-3680 A 19950918
WO 1996-NO220 W 19960918

AB Disclosed is a purified full-length cDNA mol. encoding putative serine kinase enzyme (PSKH-1), and the expression of the cDNA in a recombinant host cell to produce substantially purified PSKH-1. Inactivation of PSKH-1 pre-mRNA or PSKH-1 mRNA halts DNA synthesis and cell division. Also disclosed are ribozymes capable of cleaving PSKH-1 pre-mRNA or mRNA and thus deactivating PSKH-1 translation. Ribozymes of the hammerhead and hairpin motifs, and various compns. containing same, are also disclosed. The ribozymes compns. are used in the treatment of mammalian patients suffering from diseases or medical conditions characterized by abnormal cell proliferation or growth such as cancer and various non-malignant diseases or medical conditions such as autoimmune diseases, allograft rejection and atherosclerosis.

L27 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:498524 HCAPLUS
DOCUMENT NUMBER: 125:215535
TITLE: prk, A cytokine-inducible human protein serine/threonine kinase whose expression appears to be down-regulated in lung carcinomas
AUTHOR(S): Li, Bo; Ouyang, Bin; Pan, Huiqi; Reissmann, Peter T.; Slamon, Dennis J.; Arceci, Robert; Lu, Luo; Dai, Wei
CORPORATE SOURCE: Div. Hematol. Oncol., Univ. Cincinnati Coll. Med., Cincinnati, OH, 45267, USA
SOURCE: Journal of Biological Chemistry (1996), 271(32), 19402-19408
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The authors have cloned and characterized a putative protein serine/threonine kinase termed prk through a combination of polymerase chain reaction and conventional cDNA library screening approaches. There are apparently two distinct domains within prk protein deduced from its nucleotide sequences. The amino-terminal portion has the feature of the catalytic domain of a serine/threonine kinase and shows strong homol. to mouse fnk and other polo family kinases including mouse snk, human and murine plk, Drosophila polo, and yeast Cdc5. The carboxyl-terminal

portion, presumably the regulatory domain, shares extensive homol. to mouse fnk. Northern blotting analyses reveal that prk expression is restricted to a very limited number of tissues with placenta, ovaries, and lung containing detectable amts. of prk mRNA. Prk mRNA expression is also detected at a low level in the megakaryocytic cell line Dami, MO7e, and three brain glioma cell lines. In addition, refeeding of serum-deprived MO7e, Dami, and K562 cells of hematopoietic origin and GMO0637D of lung fibroblasts rapidly activates prk mRNA expression with its peak induction around 2 h after serum addition Prk gene activation by the serum requires no new protein synthesis. The recombinant cytokines such as interleukin-3 and thrombopoietin also activate prk mRNA expression in MO7e cells. Furthermore, a survey of RNAs isolated cancer patients reveals that prk mRNA expression is significantly down-regulated in tumor tissues. Southern blotting anal. indicates that the prk gene is present in a single copy in the genome of tumors and normal cells. Taken together, these results suggest that prk expression may be restricted to proliferating cells and involved in the regulation of cell cycle progression. The mol. cloning of prk cDNA will facilitate the study of its biol. role as well as its potential role in tumorigenesis.

L27 ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:312447 HCAPLUS
DOCUMENT NUMBER: 125:27254
TITLE: Cloning and characterization of GRB14, a novel member of the GRB7 gene family
AUTHOR(S): Daly, Roger J.; Sanderson, Georgina M.; Janes, Peter W.; Sutherland, Robert L.
CORPORATE SOURCE: Cancer Biol. Div., Garvan Inst. Med. Res., New South Wales, 2010, Australia
SOURCE: Journal of Biological Chemistry (1996), 271(21), 12502-12510
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Screening of a human breast epithelial cell cDNA library with the tyrosine-phosphorylated C terminus of the epidermal growth factor receptor identified a novel member of the GRB7 gene family, designated GRB14. In addition to a pleckstrin homol. domain-containing central region homologous to the Caenorhabditis elegans protein F10E9.6/mig10 and a C-terminal Src homol. 2 (SH2) domain, a conserved N-terminal motif, P(S/A)IPNPFPEL, can now be included as a hallmark of this family. GRB14 mRNA was expressed at high levels in the liver, kidney, pancreas, testis, ovary, heart, and skeletal muscle. Anti-Brb14 antibodies recognized a protein of approx. 58 kDa in a restricted range of human cell lines. Among those of breast cancer origin, GRB14 expression strongly correlated with estrogen receptor positivity, and differential expression was also observed among human prostate cancer cell lines. A GST-Grb14 SH2 domain fusion protein exhibited strong binding to activated platelet-derived growth factor (PDGF) receptors (PDGFRs) in vitro, but association between Grb14 and β-PDGFRs could not be detected in vivo. In serum-starved cells, Grb14 was phosphorylated on serine residues, which increased with PDGF, but not EGF, treatment. Grb14 is therefore a target for a PDGF-regulated serine kinase, an interaction that does not require PDGFR-Grb14 association

L27 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:727998 HCAPLUS
DOCUMENT NUMBER: 123:277512
TITLE: A human homolog of the Drosophila tumor suppressor gene l(2)gl maps to 17p11.2-12 and codes for a cytoskeletal protein that associates with nonmuscle myosin II heavy chain
AUTHOR(S): Strand, Dennis; Unger, Sylvia; Corvi, Raffaella;

Hartenstein, Kirsten; Schenkel, Heide; Kalmes, Andreas; Merdes, Gunter; Neumann, Beate; Krieg-Schneider, Frank

CORPORATE SOURCE: Dep. of Developmental Genetics, Deutsches Krebsforschungszentrum, Heidelberg, D-69120, Germany

SOURCE: Oncogene (1995), 11(2), 291-301
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER: Macmillan Scientific & Medical Division
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Inactivation of the tumor suppressor gene lethal(2) giant larvae (D-lgl) of Drosophila leads to malignant transformation of the presumptive adult optic centers in the larval brain and tumors of the imaginal disks. These malignancies result from the disorganization of a cytoskeletal network in which the D-LGL protein participates. Here we describe the isolation of a cDNA encoding the human homolog to the D-lgl gene designated as hugl. The hugl cDNA detects a locus spanning at least 25 kilobases (kb) in human chromosome band 17p11.2-12, which is centromeric to the p53 gene and recognizes a 4.5 kb RNA transcript. The hugl gene is expressed in brain, kidney and muscle but is barely seen in heart and placenta. Sequence anal. of the hugl cDNA demonstrates a long open reading frame, which has the potential to encode a protein of 1057 amino acids with a predicted mol. weight of 115 kdalton (kD). To further substantiate and identify the HUGL protein, we have prepared polyclonal rabbit antibodies against synthetic peptides corresponding to the amino and carboxyl termini of the conceptual translation product of the hugl gene. The affinity-purified anti-HUGL antibodies recognize a single protein with an apparent mol. weight of .apprx.115 kD. Similar to the Drosophila protein, HUGL is part of a cytoskeletal network and, is associated with nonmuscle myosin II heavy chain and a kinase that specifically phosphorylates HUGL at serine residues.

L27 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:318218 HCAPLUS
DOCUMENT NUMBER: 120:318218

TITLE: Induction and down-regulation of PLK, a human serine/threonine kinase expressed in proliferating cells and tumors

AUTHOR(S): Holtrich, Uwe; Wolf, Georg; Braeuninger, Andreas; Karn, Thomas; Boehme, Beatrix; Ruebsamen-Waigmann, Helga; Strebhardt, Klaus

CORPORATE SOURCE: Chemotherapeutisches Forschungsinst., Georg-Speyer-Haus, Frankfurt, 60596, Germany

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1994), 91(5), 1736-40
CODEN: PNASA6; ISSN: 0027-8424
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The authors have identified the nucleotide sequence of the cDNA encoding the human counterpart of the mouse gene Plk (polo-like kinase). The sequence of the human gene, PLK, predicts a serine/threonine kinase of 603 aa. Expression of PLK mRNA appeared to be strongly correlated with the mitotic activity of cells. Resting peripheral lymphocytes did not express the gene at all. When primary T cells were activated by phytohemagglutinin, a high level of PLK transcripts resulted within 2-3 days. In some cases, addition of interleukin 2 to these cells increased the expression of PLK mRNA further. In contrast, primary cultures of human peripheral macrophages, which were not dividing under the culture conditions applied, showed very little or no PLK mRNA. Stimulation of these cells by bacterial lipopolysaccharide, and inducer of several cytokines in macrophages, totally abrogated the expression of PLK mRNA. In line with a function of PLK mRNA expression in mitotically active cells is the authors' finding that six immortalized cell lines examined expressed the gene. In A-431 epidermoid carcinoma cells this expression was down-regulated by serum starvation and enhanced after serum was added

again. Tumors of various origin (lung, colon, stomach, smooth muscle, and esophagus as well as non-Hodgkin lymphomas) expressed high levels of PLK transcripts in about 80% of the samples studied, whereas PLK mRNA was absent in surrounding tissue, except for colon. The only normal tissues where PLK mRNA expression was observed were colon and placenta, both known to be mitotically active. No PLK transcripts were found in normal adult lung, brain, heart, liver, kidney, skeletal muscle, and pancreas. In Northern blot expts. with RNA from lymphocytes which were treated with phytohemagglutinin and cycloheximide, PLK transcripts were not detectable, suggesting that PLK is not an early growth-response gene.

L27 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:264453 HCAPLUS
DOCUMENT NUMBER: 120:264453
TITLE: Prokaryotic expression cloning of a novel human tyrosine kinase
AUTHOR(S): Beeler, John F.; LaRochelle, William J.; Chedid, Marcio; Tronick, Steven R.; Aaronson, Stuart A.
CORPORATE SOURCE: Lab. Cell. Mol. Biol., Natl. Cancer Inst., Bethesda, MD, 20892, USA
SOURCE: Molecular and Cellular Biology (1994), 14(2), 982-8
CODEN: MCEBD4; ISSN: 0270-7306
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Screening of a human embryonic lung fibroblast cDNA expression library with antiphosphotyrosine antibodies led to isolation of a novel protein kinase. A clone, designated A6, contained a 3-kb cDNA insert with a predicted open reading frame of 350 amino acids. DNA sequence anal. failed to reveal any detectable similarity with previously known genes, and the predicted A6 protein lacked any of the motifs commonly conserved in the catalytic domains of protein kinases. However, the bacterially expressed β-galactosidase-A6 fusion protein demonstrated both tyrosine and serine phosphorylation in an in vitro kinase assay and phosphorylated exogenous substrates including myelin basic protein specifically on tyrosine residues. The enzyme also displayed biochem. properties analogous to those of other protein tyrosine kinases. The A6 gene was found to be expressed widely at the transcript level in normal tissues and was evolutionarily conserved. Thus, A6 represents a novel tyrosine kinase which is highly divergent from previously described members of this important class of regulatory mols.

L27 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:96946 HCAPLUS
DOCUMENT NUMBER: 120:96946
TITLE: Cloning of a TGFβ type I receptor that forms a heteromeric complex with the TGFβ type II receptor
AUTHOR(S): Franzen, Petra; ten Dijke, Peter; Ichijo, Hidenori; Yamashita, Hidetoshi; Schulz, Peter; Heldin, Carl Henrik; Miyazono, Kohei
CORPORATE SOURCE: Biomed. Cent., Ludwig Inst. Cancer Res., Uppsala, S-751 24, Swed.
SOURCE: Cell (Cambridge, MA, United States) (1993), 75(4), 681-92
CODEN: CELLB5; ISSN: 0092-8674
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A cDNA clone encoding a 53 kDa serine/threonine kinase receptor with an overall structure similar to that of the type II receptor for transforming growth factor β (TGFβ) was obtained. 125I-TGFβ1 bound to porcine endothelial cells transfected with the cDNA and formed a cross-linked complex of 70 kDa, characteristic of a TGFβ type I receptor. Immunopptn. of the cross-linked complexes by antibodies against the cloned receptor revealed the 70 kDa complex as well as a 94 kDa

TGFβ type II receptor complex. The immunopptd. novel serine/threonine kinase receptor had biochem. properties of the TGFβ type I receptor and was observed in different cell types. Transfection of the cloned cDNA into TGFβ type I receptor-deficient cells restored TGFβ-induced plasminogen activator inhibitor I production These results suggest that signal transduction by TGFβ involves the formation of a heteromeric complex of two different serine/threonine kinase receptors.

L27 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:48831 HCAPLUS
DOCUMENT NUMBER: 120:48831
TITLE: The human cot proto-oncogene encodes two protein serine/threonine kinases with different transforming activities by alternative initiation of translation
AUTHOR(S): Aoki, Masahiro; Hamada, Fumihiko; Sugimoto, Toshiro; Sumida, Shuji; Akiyama, Tetsu; Toyoshima, Kumao
CORPORATE SOURCE: Res. Inst. Microb. Dis., Osaka Univ., Suita, 565, Japan
SOURCE: Journal of Biological Chemistry (1993), 268(30), 22723-32
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The cot gene is an oncogene encoding serine/threonine kinases isolated by DNA transfection assay. In this study, cDNA for the human cot protooncogene (proto-cot gene) was isolated and the structure and function of its gene products were examined The proto-cot gene has an open reading frame encoding 467 amino acids of which the first 397 amino acids are identical to those in the corresponding part of the cot gene. The protein products of the proto-cot gene were identified as 58- and 52-kDa proteins with intrinsic protein serine/threonine kinase activity. These two protein species were suggested to be generated by alternative initiation from two AUGs. The 58- and 52-kDa proteins are both localized predominantly in the cytosol, but the 58-kDa protein has a shorter half-life than the 52-kDa protein, suggesting the importance of the amino-terminal domain in regulating the stability of the proto-Cot protein. More interestingly, the 58-kDa protein showed stronger transforming activity than the 52-kDa protein, although this activity was much weaker than that of the Cot oncoprotein. Thus, the amino-terminal domain of the Cot protein may be necessary for cellular transformation, whereas the carboxyl-terminal domain may neg. regulate the transforming activity.

L27 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:486803 HCAPLUS
DOCUMENT NUMBER: 119:86803
TITLE: Stimulation by insulin of a serine kinase in human platelets that phosphorylates and activates the cGMP-inhibited cAMP phosphodiesterase
AUTHOR(S): Lopez-Aparicio, Pilar; Belfrage, Per; Manganiello, Vincent C.; Kono, Tetsuro; Degerman, Eva
CORPORATE SOURCE: Dep. Med. Physiol. Chem., Univ. Lund, Lund, S-22100, Swed.
SOURCE: Biochemical and Biophysical Research Communications (1993), 193(3), 1137-44
CODEN: BBRCA9; ISSN: 0006-291X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The authors previously reported that insulin stimulation of human platelets induces serine phosphorylation and activation of the cGMP-inhibited cAMP phosphodiesterase (cGI-PDE). Here, the authors describe methods to detect and partially purify an insulin-stimulated cGI-PDE kinase (cGI-PDE ISK) from lysates of platelets incubated with insulin. Incubation of human platelets with 10-8 M insulin increased

cGI-PDE ISK activity two-fold. The DEAE-Sephacel-purified cGI-PDE ISK phosphorylated the cGI-PDE on serine in a time- and concentration-dependent manner resulting in an increased incorporation of about 0.2 mol of [32P]/mol of cGI-PDE and 15-20% increase in cGI-PDE activity. The phosphorylation of cGI-PDE was not affected by 10 μM PKI, 1 μg/mL of heparin, 3 mM CaCl2 or 1 mM MnCl2. CGI-PDE ISK did not adsorb to antiphosphotyrosine antibodies. To maintain its activation it was necessary to add protein phosphatase inhibitors to the lysate-buffers. All of these findings are consistent with the conclusion that a serine/threonine phosphorylation of the cGI-PDE ISK is involved in its activation by insulin.

L27 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:446503 HCAPLUS
DOCUMENT NUMBER: 119:46503
TITLE: Expression cDNA cloning of a serine kinase transforming gene
AUTHOR(S): Chan, Andrew M. L.; Chedid, Marcio; McGovern, Elizabeth S.; Popescu, Nickolas C.; Miki, Toru; Aaronson, Stuart A.
CORPORATE SOURCE: Lab. Cell. Mol. Biol., Natl. Cancer Inst., Bethesda, MD, 20892, USA
SOURCE: Oncogene (1993), 8(5), 1329-33
CODEN: ONCNES; ISSN: 0950-9232
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Ectopic expression of cDNAs derived from a Ewing sarcoma cell line in NIH3T3 cells, was used to isolate a transforming gene (est). Sequence anal. revealed homol. to the cot oncogene, which encodes a novel serine kinase. Whereas the cot product was truncated at its carboxy-terminal end as a result of gene rearrangement during transfection, est encodes the normal cot product. Thus, this gene can be activated as an oncogene by overexpression as well as by gene rearrangement. NIH3T3 cells transfected with est formed progressively growing colonies in soft agar and were tumorigenic in nude mice. The 3.2-kb est transcript was expressed at low levels in both human fibroblasts and epithelial cells. Addition of the tumor promoter, okadaic acid (OA), or cytokine, interleukin 1 (IL-1), but not serum or platelet-derived growth factor (PDGF), induced increased expression of the est transcript. Fluorescence in situ hybridization was used to localize the est gene to the short arm of human chromosome 10 at band p11.2.

L27 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:509916 HCAPLUS
DOCUMENT NUMBER: 117:109916
TITLE: Specific protein kinases modulated during T cell mitogenesis. Activity of a 55-kDa serine kinase is associated with growth arrest in human T cells
AUTHOR(S): Evans, Gerald A.; Linnekin, Diana; Grove, Sheldon; Farrar, William L.
CORPORATE SOURCE: Biol. Carcinog. Dev. Program, Program Resour. Inc., Frederick, MD, 21702-1201, USA
SOURCE: Journal of Biological Chemistry (1992), 267(15), 10313-17
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The intracellular events which are involved in controlling the G1 to S phase transition during the eukaryotic cell cycle are important to define in order to understand the mechanisms by which mitogenic and growth arrest-inducing agents control cell growth. Because a change in protein kinase activity is associated with the initial response of cells to mitogenic stimulants and growth factors, a kinase renaturation assay was used to identify specific protein kinases which are modulated as human T cells

make the G1 to S phase transition after mitogenic stimulation with lectin. Four protein serine/threonine kinases of 180, 97, 85, and 38 kilodaltons were identified which are increased in activity as these cells enter S phase. A 55 kDa serine/threonine kinase (PK55) was shown to have maximal activity during G0 and its activity was reduced by 95% upon movement into S phase. PK55 is inducible in human T cells by removal of interleukin 2 and low serum incubation which arrests cells in G1 phase, indicating that it is closely associated with G1 phase growth arrest. Furthermore, a similar PK55 activity was induced upon growth arrest in HL-60 cells treated with DMSO and in Daudi cells treated with interferon α. Because the cAMP-dependent protein kinase (PK-A) family has been shown to be antiproliferative to lectin stimulated T cells, it was examined whether PK55 was in fact an isoenzyme of PK-A. Comparative anal. using a specific peptide inhibitor of PK-A activity revealed that PK55 is catalytically distinct from PK-A. Thus, increases in PK55 may be associated with the growth-arrested state and PK55 is distinct from PK-A.

L27 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:674535 HCAPLUS
DOCUMENT NUMBER: 115:274535
TITLE: cdc2 Phosphorylation is required for its interaction with cyclin
AUTHOR(S): Ducommun, Bernard; Brambilla, Paolo; Felix, Marie Anne; Franza, B. Robert, Jr.; Karsenti, Eric; Draetta, Giulio
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AB Activation of the cdc2 protein kinase at different stages of the cell cycle is regulated by post-translational modifications and interactions with cyclins. It is shown that in vitro translated human cdc2 binds very poorly to A and B cyclins, unless it has been preincubated with a Xenopus egg extract This results in the phosphorylation of cdc2 which allows binding to cyclins. The replacement of Thr161, a residue conserved and phosphorylated in other protein kinase, with valine inhibits cdc2 association with A and B cyclins. In addition, mutations in the amino-terminus of cdc2 and within the conserved PSTAIR region strongly inhibit binding. The Thr161Val mutation causes a lethal phenotype in the fission yeast Schizosaccharomyces pombe, while replacement of Thr161 with glutamic acid, potentially mimicking phosphorylation, causes uncoordination of mitosis and multiple cytokinesis. These results suggest that a threonine phosphorylation/dephosphorylation cycle is involved in regulating cdc2 function.

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L1 1212511 S KINASE?
L2 442433 S HUMAN AND L1
L3 406466 S SERINE OR THREONINE
L4 39005 S L2 AND L3
L5 6588705 S CLON? OR EXPRESS? OR RECOMBINANT
L6 22817 S L4 AND L5
L7 4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN
L8 0 S KIDNEY OT UTERUS
L9 1844028 S KIDNEY OR UTERUS
L10 4280 S L6 AND L7

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L11          1410 S L6 AND L9
L12          5270 S L10 OR L11
L13          4661 SS L1 (2W)L3
L14          4661 S L1 (2W)L3
L15           195 S L12 AND L14
L16           126 DUP REM L15 (69 DUPLICATES REMOVED)
                  E YE J/AU
L17          1758 S E3
                  E YAN C/AU
L18          1019 S E3
                  E DIFRANCESCO V/AU
L19           112 S E3-E4
                  E BEASLEY E M/AU
L20           297 S E3
L21          3154 S L16 OR L17 OR L18 OR L19 OR L20
L22           126 S L15 AND L21
L23           126 DUP REM L22 (0 DUPLICATES REMOVED)
L24          1665 S "STK"
L25             0 S L23 AND L24
L26         41147 S L1(A)L3
L27            25 S HUMAN (A)L26
L28             1 S L22 AND L27
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5	20040610	133	US 20040110227 A1	Methods and systems for identifying putative fusion transcripts, polypeptides encoded therefrom and polynucleotide sequences related thereto and methods and kits utilizing same
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8	20040527	49	US 20040102452 A1	Novel pyrazolopyrimidines as cyclin dependent kinase inhibitors
9	20040527	60	US 20040102451 A1	Novel pyrazolopyrimidines as cyclin dependent kinase inhibitors
10	20040527	35	US 20040101529 A1	REGULATION OF HUMAN SERINE-THREONINE PROTEIN KINASE

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13	20040513	78	US 20040092469 A1	Androgen-regulated PMEPA1 gene and polypeptides
14	20040513	207	US 20040091993 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
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16	20040513	279	US 20040091969 A1	Novel compounds
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20	20040415	19	US 20040072835 A1	Novel imidazopyrazines as cyclin dependent kinase inhibitors
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24	20040318		US 20040053931 A1	Azaindoles
25	20040318	287	US 20040053245 A1	Novel nucleic acids and polypeptides
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186	20000307		US 6034228 A	Human signal transduction serine/threonine kinase
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3	20040422	253	US 20040076955 A1	Methods of diagnosis of bladder cancer, compositions and methods of screening for modulators of bladder cancer
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5	20040318	287	US 20040053245 A1	Novel nucleic acids and polypeptides
6	20040304	184	US 20040043466 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
7	20040129	234	US 20040018525 A1	Methods and compositions for the prediction, diagnosis, prognosis, prevention and treatment of malignant neoplasma
8	20040108	345	US 20040005563 A1	Methods of diagnosis of ovarian cancer, compositions and methods of screening for modulators of ovarian cancer
9	20031218	111	US 20030232408 A1	ISOLATED HUMAN KINASE PROTEINS

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10	20031211	122	US 20030228595 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
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12	20031106	128	US 20030207311 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
13	20031023	139	US 20030198975 A1	Proteins associated with cell growth, differentiation, and death
14	20030904	85	US 20030166215 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
15	20030821	41	US 20030157679 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
16	20030724	460	US 20030138432 A1	Selective cellular targeting: multifunctional delivery vehicles, multifunctional prodrugs, use as antineoplastic drugs

	Issue Date	Pages	Document ID	Title
17	20030626	156	US 20030119037 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
18	20030424	54	US 20030077664 A1	Methods of screening for compounds that modulate hormone receptor activity
19	20030313	81	US 20030049795 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
20	20030206	185	US 20030027307 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
21	20030130	89	US 20030022341 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
22	20030130	207	US 20030022340 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
23	20030130	53	US 20030022337 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
24	20030130	41	US 20030022232 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
25	20020919		US 20020132322 A1	ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF

	Issue Date	Pages	Document ID	Title
26	20020912	174	US 20020127683 A1	ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF
27	20020627	320	US 20020082189 A1	ISOLATED HUMAN SERINE/THREONINE KINASE NUCLEIC ACID MOLECULES ENCODING HUMAN SERINE/THREONINE KINASE AND USES THEREOF
28	20040525		US 6740513 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
29	20040420		US 6723837 B1	Nucleic acid molecule and encoded protein associated with sterol synthesis and metabolism
30	20040316	106	US 6706511 B2	Isolated human kinase proteins
31	20040316		US 6706510 B2	Isolated human kinase proteins
32	20040217		US 6692948 B2	Isolated human kinase proteins
33	20040203		US 6686176 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
34	20040120		US 6680188 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof

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35	20031125	180	US 6653117 B2	Isolated human kinase proteins
36	20031028	78	US 6638745 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
37	20030701		US 6586185 B2	Use of polypeptides or nucleic acids for the diagnosis or treatment of skin disorders and wound healing and for the identification of pharmacologically active substances
38	20021231	86	US 6500656 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
39	20021210	107	US 6492156 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
40	20021210	180	US 6492155 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
41	20021119	46	US 6482935 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
42	20021112	202	US 6479269 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
43	20020611		US 6403353 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof

	Issue Date	Pages	Document ID	Title
44	20020122		US 6340583 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof

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1	L1	49088	kinase$2
2	L2	419659	human
3	L3	51602	serine or threonine
4	L4	4116	l3 adj2 l1
5	L5	1201	l2 same l4
6	L6	638731	clon$3 or express$3 or recombinant
7	L7	613	l5 same l6
8	L8	115923	hippocampus or breast or carcinoma or brain
9	L9	189	l7 same l8
10	L10	67898	kidney or uterus
11	L11	81	l5 same l10
12	L12	208	l9 or l11
13	L13	14169	YE YAN

	L #	Hits	Search Text
14	L14	3757	DIFRANCESCO BEASLEY
15	L15	17701	l13 or l14
16	L16	44	l12 and l15